EXHIBIT 58

Page 1 IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW JERSEY IN RE: JOHNSON & JOHNSON TALCUM POWDER PRODUCTS MARKETING, SALES PRACTICES, AND PRODUCTS LIABILITY LITIGATION MDL NO: 16-2738(FLW)(LHG) THIS DOCUMENT RELATES TO ALL CASES PAGE 1 TO 343 The Videotaped Deposition of GHASSAN SAED, PH.D., Taken at 1 Park Avenue, Detroit, Michigan, Commencing at 9:15 a.m., Wednesday, January 23, 2019, Before Laurel A. Frogner, RMR, CRR, CSR-2495.

	Page 2	Page 4
1	APPEARANCES:	1 APPEARANCES (Continued):
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	Page 3	Page 5
1	APPEARANCES (Continued):	1 APPEARANCES (Continued):
2	,	2
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20	Appearing on ochair of the Frankris	20
21		20 21
22		21 22
23		22 23
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25		25
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1	APPEARANCES (Continued):	1	TABLE OF CONTENTS		
2	,	2	Witness Page		
3	COUGHLIN DUFFY LLP	3	EXAMINATION BY MR. HEGARTY	17	
4	BY: JONATHAN F. DONATH, ESQ.	4	EXAMINATION BY MR. KLATT	283	
5	350 Mount Kemble Avenue	5	RE-EXAMINATION BY MR. HEGARTY	316	
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7	Morristown, New Jersey 07962	7	RE-EXAMINATION BY MR. HEGARTY	328	
8	973-267-0058	8	RE-EXAMINATION BY MR. KLATT	337	
9	jdonath@coughlinduffy.com	9	EXAMINATION BY MR. LOCKE	339	
10	Appearing on behalf of the Defendant Imerys Talc America	10			
11		11			
12		12	INDEX TO EXHIBITS		
13	TUCKER ELLIS	13	(Exhibits attached to transcript)		
14	BY: JAMES W. MIZGALA, ESQ.	14			
15	233 South Wacker Drive	15	Exhibit Page		
16	Chicago, Illinois 60606	16	SAED DEPOSITION EXHIBIT NUMBER 1, COP	Y OF NOTEBOOK	13
17	312-624-6300	17	BATES SAED000001 - SAED000097, WAS MAR	KED BY THE	
18	James.mizgala@tuckerellis.com	18	REPORTER FOR IDENTIFICATION		
19	Appearing on behalf of the Defendant PTI	19			
20		20	SAED DEPOSITION EXHIBIT NUMBER 2, LAB	NOTEBOOK,	13
21		21	(Retained by Witness) WAS MARKED BY THE R	EPORTER	
22		22	FOR IDENTIFICATION		
23		23			
24		24			
25		25			
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1	APPEARANCES (Continued):	1	SAED DEPOSITION EXHIBIT NUMBER 3, LAR	NOTEBOOK,	14
2	THE TENTH WELD (Continued).	2	(Retained by Witness) WAS MARKED BY THE F	EPORTER	
3	SEYFARTH SHAW LLP	3	FOR IDENTIFICATION		
4	BY: THOMAS T. LOCKE, ESQ.	4			
5	975 F Street, N.W.	5	SAED DEPOSITION EXHIBIT NUMBER 4, INV	OICES, WAS	22
6	Washington, D.C. 20004	6	MARKED BY THE REPORTER FOR IDENTIFIC	CATION	
7	202-463-2400	7			
8	tlocke@seyfarth.com	8	SAED DEPOSITION EXHIBIT NUMBER 5, DEC	CEMBER 18,	35
9	Appearing on behalf of the Defendant PCPC	9	2018 DOCUMENT, WAS MARKED BY THE RE	PORTER FOR	
10		10	IDENTIFICATION		
11	ALSO PRESENT: Marc Myers, Videographer	11			
12		12	SAED DEPOSITION EXHIBIT NUMBER 6, COR	Y OF CHECK	40
13		13	DATED 11/2/2017 FOR \$15,000, WAS MARKED	BY THE	
14		14	REPORTER FOR IDENTIFICATION		
15		15			
16		16	SAED DEPOSITION EXHIBIT NUMBER 7, MO	LECULAR BASIS	42
17	* * * * * *	17	SUPPORTING THE ASSOCIATION OF TALCU	JM POWDER USE	
18		18	WITH INCREASED RISK OF OVARIAN CANC	ER, WAS MARKED)
19		19	BY THE REPORTER FOR IDENTIFICATION		
20		20			
21		21	SAED DEPOSITION EXHIBIT NUMBER 8, MO	LECULAR BASIS	45
22		22	SUPPORTING THE ASSOCIATION OF TALCU	M POWDER USE	
23		23	WITH INCREASED RISK OF OVARIAN CANC	ER, WAS MARKEI)
24		24	BY THE REPORTER FOR IDENTIFICATION		
25		25			

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1	SAED DEPOSITION EXHIBIT NUMBER 10, INDEX FOR LAB 7	8 1	Detroit, Michigan
2	NOTEBOOK, WAS MARKED BY THE REPORTER FOR	2	Wednesday, January 23, 2019
3	IDENTIFICATION	3	About 9:15 a.m.
4		4	THE VIDEOGRAPHER: We are now on the record.
5	SAED DEPOSITION EXHIBIT NUMBER 9, PILOT STUDY, 84	5	My name is Marc Myers. I'm the videographer for Golkow
6	WAS MARKED BY THE REPORTER FOR IDENTIFICATION	6	Litigation Services. Today's date is January 23rd,
7		7	2019. The time is now 9:15 a.m. This video deposition
8	SAED DEPOSITION EXHIBIT NUMBER 11, NOTEBOOKS, 132	. 8	is being held in Detroit, Michigan in regards to the
9	WAS MARKED BY THE REPORTER FOR IDENTIFICATION	9	Johnson & Johnson Talcum Powder Products Marketing,
10		10	Sales Practices, and Products Liability Litigation,
11	SAED DEPOSITION EXHIBIT NUMBER 12, 151	11	pending in the United States District Court for the
12	SAGE PUBLISHING DOCUMENT,	12	District of New Jersey.
13	WAS MARKED BY THE REPORTER FOR IDENTIFICATION	13	The deponent is Dr. Ghassan Saed. And
14		14	counsel will be noted on the stenographic record. And
15	SAED DEPOSITION EXHIBIT NUMBER 13, 157	15	will the court reporter please swear in the witness.
16	SAGE PUBLISHING DOCUMENT,	16	DR. GHASSAN SAED,
17	WAS MARKED BY THE REPORTER FOR IDENTIFICATION	17	having first been duly sworn, was examined and
18		18	testified on his oath as follows:
19	SAED DEPOSITION EXHIBIT NUMBER 14, 161	19	MR. HEGARTY: Before we begin with
20	COPY OF LETTER FROM REPRODUCTIVE SCIENCES,	20	questioning Dr. Saed, I want to make a note on the
21	WAS MARKED BY THE REPORTER FOR IDENTIFICATION	21	record with regard to materials that were produced to
22		22	us this morning by counsel for Plaintiffs. Those
23	SAED DEPOSITION EXHIBIT NUMBER 15, JANUARY 14, 173	23	materials included the original lab notebook for
24	2019 E-MAIL, WAS MARKED BY THE REPORTER FOR	24	presumably the study that Dr. Saed did that's reported
25	IDENTIFICATION	25	in a manuscript that we were provided as well in
	Page 11		Page 13
1		. 1	_
1 2	SAED DEPOSITION EXHIBIT NUMBER 16, EXPERT REPORT, 17		advance, and it's our understanding that we were to
3	WAS MARKED BY THE REPORTER FOR IDENTIFICATION	2 3	have copies of the notebook provided to us in advance
4	SAED DEPOSITION EXHIBIT NUMBER 17, RESEARCH 214	4	of the deposition. We were provided with what we believe to be that notebook that I'm marking as Exhibit
5	ARTICLE, WAS MARKED BY THE REPORTER FOR	5	Number 1.
6	IDENTIFICATION	6	SAED DEPOSITION EXHIBIT NUMBER 1,
7	IDENTIFICATION	7	COPY OF NOTEBOOK BATES SAED000001 - SAED000097,
8	SAED DEPOSITION EXHIBIT NUMBER 18, CURRICULUM 278		WAS MARKED BY THE REPORTER
9		9	FOR IDENTIFICATION
10	VITAE, WAS MARKED BY THE REPORTER FOR	10	MR. HEGARTY: That notebook those notebook
11	IDENTIFICATION	11	pages begin on Page 30 and go through Page 124 as noted
	SAED DEPOSITION EXHIBIT NUMBER 19, ABSTRACT 315	12	in handwriting on the pages. They are Bates Numbered 1
12	SAED DEPOSITION EXHIBIT NUMBER 19, ABSTRACT 315 SUBMITTED TO SGO, WAS MARKED BY THE REPORTER FOR	13	
13 14		14	through 97. SAED DEPOSITION EXHIBIT NUMBER 2,
	IDENTIFICATION	15	LAB NOTEBOOK, (Retained by Witness)
15	CAED DEDOCITION EVHIDIT NUMBER 20 ABSTRACT	16	WAS MARKED BY THE REPORTER
16	SAED DEPOSITION EXHIBIT NUMBER 20, ABSTRACT, 316 WAS MARKED BY THE REPORTED FOR IDENTIFICATION	17	FOR IDENTIFICATION
17	WAS MARKED BY THE REPORTER FOR IDENTIFICATION	18	MR. HEGARTY: The lab notebook we've been
18	CAED DEDOCITION EVHIDIT NUMBER 21 ABOTRACT 217	19	provided this morning, which I will designate for
19	SAED DEPOSITION EXHIBIT NUMBER 21, ABSTRACT 317 EDOM SPI, WAS MARKED BY THE REPORTED FOR	20	purposes of the record as Exhibit Number 2, because we
20	FROM SRI, WAS MARKED BY THE REPORTER FOR	20	were told that we were not to mark on it and that Dr.
21	IDENTIFICATION	22	Saed would retain it, but the lab notebook provided is
22		23	Exhibit Number 2, includes Pages 1 through 29 which we
22		1 43	Lamon Number 2, mendes i ages i unough 29 which we
23		24	were not provided in advance of the deposition. We
23 24 25		24 25	were not provided in advance of the deposition. We believe those pages should have been provided along

	Page 14		Page 16
1	with the other pages pursuant to Judge Pisano's order	1	excuse me, was not a part of Dr. Saed's manuscript.
2	and pursuant to our Notice of Deposition. Not having	2	MR. HEGARTY: I marked it as Exhibit 3, the
3	those pages in advance prejudices our right to have a	3	other lab notebook.
4	full and complete opportunity to discuss the lab	4	MS. O'DELL: I'm referring to Exhibit 2, the
5	notebook with Dr. Saed during his deposition, and we	5	initial lab
6	object to its production here this morning and	6	MR. HEGARTY: Okay, I'm sorry, I thought you
7	certainly reserve our right to seek additional time	7	were referring to the second one.
8	with Dr. Saed as well as any other remedies that we	8	MS. O'DELL: I was not.
9	might be entitled to for what we believe to be an	9	MR. HEGARTY: I'm sorry to interrupt.
10	untimely production.	10	MS. O'DELL: I'm pretty sure you are not
11	Also, I will note for purposes of the record	11	sorry you interrupted me, but Exhibit 2 is the lab
12	that we received this morning as well another lab	12	notebook I'm referring to, and the study that is the
13	notebook that is purported to be a notebook covering an	13	basis of the objection was not a part of the manuscript
14	additional set of tests that Dr. Saed did with Fisher	14	or the report.
15	Scientific Talc, and make note that there's a reference	15	Secondly, Exhibit 3 includes a separate and
16	in the manuscript that we were provided testing done on	16	distinct set of data for a Fisher talc study, and we
17	Fisher Scientific talc. We'll designate for purposes	17	have provided that today, it was published in an
18	of the record this notebook is Exhibit Number 3.	18	abstract and we provided that today in compliance with
19	SAED DEPOSITION EXHIBIT NUMBER 3,	19	the second notice of deposition. So the plaintiff's
20	LAB NOTEBOOK, (Retained by Witness)	20	position is we have provided everything the Judge
21	WAS MARKED BY THE REPORTER	21	ordered, everything that's required as part of the
22	FOR IDENTIFICATION	22	notice, and we'll oppose any motion to extend the
23	MR. HEGARTY: This notebook was not provided	23	deposition and keep it open.
24	nor in advance of the deposition nor were any pages	24	MR. HEGARTY: I do have a question. You're
25	of this notebook provided in advance of the deposition.	25	saying that the lab notebook we designated as Exhibit
	Page 15		Page 17
1	Page 15 We have not had an opportunity to review it to know	1	Page 17 Number 2 for which you provided copies is not related
1 2		1 2	
	We have not had an opportunity to review it to know		Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis
2	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll	2	Number 2 for which you provided copies is not related
2	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is	2	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With
2 3 4	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's	2 3 4	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer?
2 3 4 5	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of	2 3 4 5	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I
2 3 4 5	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to	2 3 4 5 6	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2,
2 3 4 5 6 7	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this	2 3 4 5 6 7	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not
2 3 4 5 6 7 8	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this notebook and, again, we reserve all rights for whatever	2 3 4 5 6 7 8	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not reported in the manuscript or the report, the expert
2 3 4 5 6 7 8	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this notebook and, again, we reserve all rights for whatever remedies are appropriate due to this late production.	2 3 4 5 6 7 8	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not reported in the manuscript or the report, the expert report in this matter, and, therefore, they were not
2 3 4 5 6 7 8 9	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this notebook and, again, we reserve all rights for whatever remedies are appropriate due to this late production. MR. KLATT: Imerys Talc America joins in what	2 3 4 5 6 7 8 9	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not reported in the manuscript or the report, the expert report in this matter, and, therefore, they were not subject Judge Pisano's previous ruling, so that's the
2 3 4 5 6 7 8 9 10	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this notebook and, again, we reserve all rights for whatever remedies are appropriate due to this late production. MR. KLATT: Imerys Talc America joins in what Mr. Hegarty said. And can we have the agreement we've	2 3 4 5 6 7 8 9 10	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not reported in the manuscript or the report, the expert report in this matter, and, therefore, they were not subject Judge Pisano's previous ruling, so that's the distinction that I'm making. These are materials that
2 3 4 5 6 7 8 9 10 11 12	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this notebook and, again, we reserve all rights for whatever remedies are appropriate due to this late production. MR. KLATT: Imerys Talc America joins in what Mr. Hegarty said. And can we have the agreement we've had that one objection is good for all?	2 3 4 5 6 7 8 9 10 11	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not reported in the manuscript or the report, the expert report in this matter, and, therefore, they were not subject Judge Pisano's previous ruling, so that's the distinction that I'm making. These are materials that were made available to you today and you have full
2 3 4 5 6 7 8 9 10 11 12 13	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this notebook and, again, we reserve all rights for whatever remedies are appropriate due to this late production. MR. KLATT: Imerys Talc America joins in what Mr. Hegarty said. And can we have the agreement we've had that one objection is good for all? MS. O'DELL: Yes.	2 3 4 5 6 7 8 9 10 11 12	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not reported in the manuscript or the report, the expert report in this matter, and, therefore, they were not subject Judge Pisano's previous ruling, so that's the distinction that I'm making. These are materials that were made available to you today and you have full opportunity TO ask Dr. Saed questions about it.
2 3 4 5 6 7 8 9 10 11 12 13 14	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this notebook and, again, we reserve all rights for whatever remedies are appropriate due to this late production. MR. KLATT: Imerys Talc America joins in what Mr. Hegarty said. And can we have the agreement we've had that one objection is good for all? MS. O'DELL: Yes. MR. KLATT: All defendants join.	2 3 4 5 6 7 8 9 10 11 12 13	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not reported in the manuscript or the report, the expert report in this matter, and, therefore, they were not subject Judge Pisano's previous ruling, so that's the distinction that I'm making. These are materials that were made available to you today and you have full opportunity TO ask Dr. Saed questions about it. MR. HEGARTY: I understand.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	We have not had an opportunity to review it to know whether this is pertinent to the manuscript that we'll talk about here today, but also believe that this is likely to also fall within the scope of Judge Pisano's order and certainly within the scope of the Notice of Deposition that we had made. So we also object to its the timeliness of the production of this notebook and, again, we reserve all rights for whatever remedies are appropriate due to this late production. MR. KLATT: Imerys Talc America joins in what Mr. Hegarty said. And can we have the agreement we've had that one objection is good for all? MS. O'DELL: Yes. MR. KLATT: All defendants join. MS. O'DELL: So on behalf of the steering committee, let me state that Judge Pisano's order related to the specific a specific Notice of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Number 2 for which you provided copies is not related to the manuscript that's titled Molecular Basis Supporting the Association of Talcum Powder Use With Increased Risk of Ovarian Cancer? MS. O'DELL: That's not what I said. What I said is the portion of the lab notebook Exhibit 2, which you referred to as Pages 1 through 29, are not reported in the manuscript or the report, the expert report in this matter, and, therefore, they were not subject Judge Pisano's previous ruling, so that's the distinction that I'm making. These are materials that were made available to you today and you have full opportunity TO ask Dr. Saed questions about it. MR. HEGARTY: I understand. EXAMINATION BY MR. HEGARTY: Q. Good morning, Dr. Saed. A. Good morning.
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	Page 18		Page 20
1	A. Wayne State University Medical School.	1	BY MR. HEGARTY:
2	Q. What is your title there?	2	Q. What portion of the fees have you not been paid
3	A. Associate professor.	3	A. So we
4	Q. How long have you held that position?	4	Q through DS Biotech?
5	A. Eight years about, I'm not	5	A. So we have to deduct expenses and everything.
6	Q. Do you also have a separate personal consulting	6	Q. Can you approximate the expenses you have had to deduce
7	business for purposes of litigation?	7	from the fees you've
8	A. DS Biotech, it's a consulting company.	8	A. I haven't done it for this year yet.
9	Q. Are there any other employees or owners or other	9	Q. Do you have any other sources of income besides your
10	individuals involved in DS Biotech besides you?	10	work at Wayne State and through DS Biotech?
11	A. No.	11	A. No.
12	Q. Is your son in any way involved in that business?	12	Q. What are you charging Plaintiff's Counsel in this
13	A. Just doing some paperwork.	13	litigation for your work?
14	Q. Do you do any business through DS Biotech besides	14	A. \$600 an hour.
15	expert witness consulting for litigation?	15	Q. Do you have different rates for deposition or trial
16	A. We do consulting for scientific testing for	16	testimony?
17	universities, for investigators, we design experiments,	17	A. Do I have different rate?
18	we help them write manuscripts.	18	Q. Sure. The rate you just quoted me was per hour, \$600
19	Q. You said for other investigators or universities. Do	19	per hour. Do you have a different per-hour rate if
20	you do any business with any companies?	20	you're being deposed or if you're going to trial?
21	A. I do, yes.	21	A. Oh, no.
22	Q. Can you name a company with whom you do business?	22	Q. You have obligations at Wayne State University to
23	A. Temple Pharmaceuticals.	23	disclose financial arrangements
24	Q. How long has DS Biotech been in business?	24	A. Yes.
25	A. 2006.	25	Q is that correct? Have you disclosed your financial
	Page 19		Page 21
1	Q. Are you currently named as an expert witness in any	1	arrangement
2	other litigation besides this one?	2	A. Yes.
3	A. No.	3	Q to Wayne State with regard to your work with
4	Q. Have the fees that you have generated in connection	4	Plaintiff's Counsel in this case?
5	with your work on this case been directed to DS	5	A. Yes.
6	Biotech?	6	Q. When did you make that disclosure?
7	A. Been directed?	7	A. Every year they there's a deadline to receive to
8	Q. Well, have the fees that you have generated for your	8	submit a form which shows consultation efforts, and for
9	work on this case been paid to DS Biotech?	9	2018 that was submitted 10 days ago.
10	A. Yes.	10	Q. Who did you identify to whom you were consulting with
11	Q. Do you receive all of the income from those fees?	11	with regard to that disclosure for purposes of this
12	A. Through DS Biotech?	12	litigation?
13	Q. Yes.	13	A. DS Biotech and Beasley Allen.
14	A. Yes, after I submit taxes and all that.	14	Q. You prepared a report in this case, correct?
15	Q. But you essentially receive the fees even though they	15	A. (Nods head.)
16	were directed to DS Biotech, correct?	16	Q. Yes?
17	A. Correct, the company received it, yes.	17	A. Did I prepare a report? Yes.
18	Q. Then you have been you were paid by the company,	18	Q. Did anyone outside of the lawyers for the plaintiffs in
19	correct?	19	this case assist you in any way with that report?
20	A. Yes.	20	A. No.
	Q. Were you have you been paid by the company the same	21	Q. Do you know how much you have been paid through the
21	4.4 1.1 4.6 4.10	22	present date for your work in this litigation?
21 22	amount to which the fees generated?		
21 22 23	MS. O'DELL: Object to the form.	23	A. Yes.
21 22	_	23 24 25	A. Yes.Q. How much?A. Approximately 260, something like that.

	Page 22		Page 24
1	Q. 260,000?	1	Beasley Allen?
2	A. Yes, about that, maybe a little bit less, I don't know,	2	A. So I started October, maybe 1st of October, maybe
3	I can't remember the exact number.	3	before that, I can't remember the exact date.
4	SAED DEPOSITION EXHIBIT NUMBER 4,	4	Q. What is your best estimate?
5	INVOICES,	5	A. I would say end of September.
6	WAS MARKED BY THE REPORTER	6	Q. So the first invoice I'm sorry, go ahead.
7	FOR IDENTIFICATION	7	A. Go ahead.
8 9	BY MR. HEGARTY:	8	Q. So the first invoice on Exhibit Number 4 would reflect the time you spent from approximately the end of
10	Q. I'm marking as Exhibit Number 4, Dr. Saed, copies of invoices that we were provided in advance of the	10	September through October 30th, 2017, correct?
11	deposition. Would you look at Exhibit Number 4, and	11	A. Correct.
12	tell me whether those are copies of all the invoices	12	Q. Can you describe for me with regard to the first
13	you have generated for purposes of your work in this	13	invoice the type of work that you did between the
14	case?	14	first between the end of September and the date of
15	A. Yeah, they look fine to me.	15	this first invoice?
16	Q. The last invoice we were provided is dated November 16,	16	A. Sure. So this was time for meetings, meeting with them
17	2018, that's the issue date. Have you prepared any	17	and reviewing literature basically.
18	additional invoices since that date?	18	Q. You said meeting with them. Who is "them"?
19	A. No.	19	A. With Beasley Allen.
20	Q. Have you spent additional time on this case for which	20	Q. Which attorneys from Beasley Allen did you meet with?
21	you intend to prepare an invoice	21	A. Dr. Thompson, Mrs
22	A. Yes.	22	MS. O'DELL: O'Dell.
23	Q since that date?	23	THE WITNESS: O'Dell and Jennifer
24	A. Yes.	24	what's her last name?
25	Q. How much additional time have you spent that you have	25	
	Page 23		Page 25
1	not yet invoiced?	1	BY MR. HEGARTY:
2	A. Approximately 100, 110 hours.	2	Q. Do you recall the date of your first contact by Beasley
3	Q. The invoices show that they were issued by DS Biotech,	3	Allen?
4	that's the company we talked about earlier, is that	4	A. Around middle of August.
5	correct?	5	Q. How was that contact made?
6	A. Yes.	6	A. A phone call.
7	Q. There are no other employees of DS Biotech besides	7	Q. A phone call to you?
8	yourself, is that correct?	8	A. Yes. Q. Who called you?
9 10	A. And help from my son, paperwork part-time. Q. Is he a paid employee?	9 10	A. Dr. Thompson.
11	A. No.	11	Q. Did you know Dr. Thompson before the call?
12	Q. The first page of Exhibit Number 4 with an issue date	12	A. No.
13	of the invoice 10-30-2017 includes just a single word	13	Q. Apart from or strike that. What did she tell you
14	in the description Consulting with no corresponding	14	when she first called you?
15	date. What is the date of the first consulting entry	15	A. She told me that they would like to meet with me to
16	that you have listed on the first page of Exhibit	16	discuss the possibility of acting as a witness expert
17	Number 4?	17	in ovarian cancer inflammation and oxidative stress.
18	A. 10-30, so what's the I'm sorry.	18	Q. Did you agree to serve as a retained expert on behalf
19	Q. Let me ask, Exhibit Number 4, the first page refers to	19	of Beasley Allen at that first call?
20	an invoice of \$20,400 at a unit price of \$600, so there	20	A. No.
21	would be several hours, you spent several hours doing	21	Q. What else were you told by Miss Thompson during that
22	something that generated that invoice, correct?	22	phone call?
23	A. Yes.	23	A. We just basically talked about setting a meeting and we
	O WH 1:14 4 4: 4 9 WH : 4 6" 44"	24	did.
24 25	Q. When did that something start? When is the first time that you spent anytime on this matter on behalf of	25	Q. You said that she told you that they would like to meet

	Page 26		Page 28
1	with you to discuss the possibility of acting as a	1	moment after Mark's question so I can object if I need
2	witness, expert witness on cancer inflammation and	2	to.
3	oxidative stress. Was there a reference during that	3	THE WITNESS: Oh, I'm sorry.
4	call to talc exposure?	4	MS. O'DELL: Thank you.
5	A. No.	5	THE WITNESS: Where are we now?
6	Q. So tale was not brought up	6	BY MR. HEGARTY:
7	A. In the conversation, no.	7	Q. Yes, I said my question was what analysis of the
8	Q in the first call. Was the fact that they were	8	medical literature had you done with regard to talc and
9	representing clients or that they were wanting to talk	9	ovarian cancer prior to the call from Miss Thompson?
10	to you in connection with a litigation, was that	10	A. Reading the literature.
11	discussed?	11	Q. What literature had you read?
12	A. In the phone call, no.	12	A. I read the epidemiology studies, I read some of the
13	Q. Did she identify herself as a lawyer?	13	molecular studies, I read what's in the news, I read
14	A. Yes, and the firm.	14	everything, I listened to the news, that's my interest,
15	Q. What was your understanding as far as why a lawyer from	15	it's ovarian cancer and inflammation.
16	Beasley Allen would want to talk to you about	16	Q. What epidemiologic studies had you read prior to the
17	inflammation and oxidative stress?	17	call from Miss Thompson?
18	A. Because so, oh, so you're telling me if she told me	18	A. I read the exact one?
19	she is the lawyer on behalf of the defendants, I mean	19	Q. Yes.
20	the plaintiffs in ovarian cancer cases and talc?	20	A. I can't remember exact one, but I read several studies.
21	Q. Yes.	21	Q. Can you identify the names of any studies, whether by
22	A. She, yes, she identified herself as such.	22	author or study name, that you had read prior to the
23	Q. So you understood that the	23	call from Miss Thompson?
24	A. Yes.	24	MS. O'DELL: Object and asked and answered.
25	Q consulting that you would be doing would be with	25	THE WITNESS: Yeah. I mean I can look it up
	Page 27		Page 29
1	regard to in some way to tale, correct?	1	for you, but the cohort study is what I read, and I
2	MS. O'DELL: Object to the form.	2	read some other studies. I can't remember exactly.
3	THE WITNESS: No. I was asked to serve as a	3	BY MR. HEGARTY:
4	witness expert in my specialty, which is what we did	4	Q. When in relation to the call from Miss Thompson had you
5	and what I do for the last 30 years, ovarian cancer,	5	read the medical literature you just described?
6	oxidative stress, and inflammation.	6	A. Sorry, I missed that.
7	BY MR. HEGARTY:		
		7	Q. When in relation to the call from Miss Thompson in
8	Q. As of the time of that phone call, your specialty was	7 8	Q. When in relation to the call from Miss Thompson in August of 2017 had you read the literature you just
8 9	Q. As of the time of that phone call, your specialty was not talc, correct?		
		8	August of 2017 had you read the literature you just
9	not talc, correct?	8 9	August of 2017 had you read the literature you just talked about, the epi studies, the molecular studies?
9 10	not talc, correct? A. My specialty is anything that induces inflammation and	8 9 10	August of 2017 had you read the literature you just talked about, the epi studies, the molecular studies? A. Yeah, it's over the past year prior.
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	Page 30		Page 32
1	BY MR. HEGARTY:	1	talc and ovarian cancer?
2	Q. Correct.	2	A. That tale is a potential inducer of inflammation, and
3	A. I didn't do any studies related to lab studies	3	it induces and increases risk of ovarian cancer.
4	related to talc before that, yes.	4	Q. Those opinions came from your review from the media
5	Q. And as of the time that Miss Thompson called you, had	5	reports and your review of the literature you
6	you formed any opinions with regard to talc and ovarian	6	described?
7	cancer?	7	A. Uh-huh.
8	A. Formed an opinion?	8	Q. Is that correct?
9	Q. Yes, as to whether there's a causal link between tale	9	A. Correct.
10	and ovarian cancer?	10	Q. With regard to the invoices we marked as Exhibit
11	A. It's always my opinion that anything that causes	11	Number 4, do these reflect only your time spent in this
12	inflammation, redox imbalance, is linked to increased	12	case?
13	risk of ovarian cancer. This is the core of my work.	13	A. Correct.
14	Q. So it's always been your opinion that anything that	14	Q. Are you able to break down from these invoices the
15	causes inflammation will cause ovarian cancer?	15	amount of hours you spent reviewing literature?
16	MS. O'DELL: Object to the form.	16	A. From the first one?
17	You may answer.	17	Q. From the first one through the end.
18	THE WITNESS: No. I said that anything that	18	A. The answer is no, because I always review literature,
19	induces inflammation, alter the redox balance is	19	this is my job, that's what I do for a living, I review
20	potential for increasing risk of ovarian cancer, yes.	20	literature every single day.
21	BY MR. HEGARTY:	21	Q. After being contacted by Miss Thompson, did you review
22	Q. As of the time that Miss Thompson called you, what	22	literature with regard to this subject area, talc and
23	medical studies reported that talc altered the redox	23	ovarian cancer, that you had not reviewed before?
24	balance leading to inflammation?	24	A. Yes.
25	A. There was one study of Shukla, I think, and they	25	Q. Are you able to break down from these invoices the
	Page 31		Page 33
1	measured the effect of they measured the reactive	1	amount of time you spent writing your expert report?
2	oxygen species especially dihydrogen peroxide H2O2, and	2	A. There is actually one that actually state no, no,
3	they found a dose response effect when exposure to	3	where is it? I thought there was one saying expert
4	talc.	4	report. I can identify it, yes.
5	Q. From that one study you came to the opinion that	5	Q. You can't identify it?
6	A. No.	6	A. I can, just give me one second. Yes, it's this one.
7	Q talc use causes redox imbalance that leads to	7	Q. The very last one?
8	inflammation that leads to ovarian cancer?	8	A. Yes.
9	MS. O'DELL: Object to the form.	9	Q. Does the very last one represent the amount of time you
10	THE WITNESS: No. What I said that my	10	spent writing your report?
11	interest is inflammation and redox balance and	11	A. Correct.
12	imbalance and reactive oxygen species, so anything that	12	Q. Are you able to break down from the invoices the amount
13	able at the cellular level to alter this, manipulate	13	of time you spent talking with lawyers for Beasley
14	this, is a candidate, is a potential risk to ovarian	14	Allen?
15	cancer.	15	A. No.
16	BY MR. HEGARTY:	16	Q. You prepared a manuscript which we'll talk about today
17	Q. As of the time that Miss Thompson called you, had you	17	that has been submitted to the Journal for Reproductive
18	come to the opinion that talc used by women did alter	18	Sciences entitled Molecular Basis Supporting the
19	the redox balance?	19	Association of Talcum Powder Use With Increased Risk of
20	MS. O'DELL: Objection, asked and answered.	20	Ovarian Cancer. Are you familiar with that?
21	You may answer.	21	A. Yes.
22	THE WITNESS: Repeat the question, please.	22	Q. Did you bill the time you spent preparing that
23	BY MR. HEGARTY:	23	manuscript to lawyers for Beasley Allen?
0.4			
24 25	Q. Sure. As of the time that you received the call from Miss Thompson, what opinion did you have with regard to	24 25	A. For this one? Yes. Q. Is that reflected in these invoices?

	Page 34		Page 36
1	A. Yes.	1	costs for your tale project that she did on
2	Q. Are you able to tell me how much time you spent	2	December 18, 2018?
3	preparing that manuscript that's reflected in the	3	A. I always ask for all my projects accounts.
4	invoices we marked as Exhibit Number 4?	4	Q. Where is the documentation or accounting of the time
5	A. Exactly, no.	5	you spent, the lab supplies, the equipment, services,
6	Q. Can you approximate it in any way?	6	isn't there a separate list that breaks down the hours
7	A. Yes.	7	or the costs for personnel time and lab supplies,
8	Q. What's your approximation?	8	equipment, services?
9	A. I would say about 60 to 70 hours.	9	MS. O'DELL: Objection.
10	Q. There are other authors on that paper, correct?	10	THE WITNESS: Yeah, so the question is these
11	A. Correct.	11	numbers came from breakdown of expenses, receipts. We
12	Q. Did you bill their time to Beasley Allen for their work	12	do have receipts for all the expenses from the lab.
13	on the manuscript?	13	BY MR. HEGARTY:
14	A. No.	14	Q. Do you have receipts for, that document all the time
15	Q. How was their time paid for?	15	that is under the heading personnel?
16	A. So some of them are, if you look at the names, some of	16	A. So the only personnel that's paid was Dr. Fletcher and
17	them are the department chair, Dr. Morris, and this is	17	part-time my research assistant, medical student Ira,
18	an academic institution, we don't bill for the time of	18	she was paid part-time, but full-time salary was paid
19	consultants or coworkers or co-authors. The research	19	for Nicole from this budget.
20	technicians was paid from my lab, and Amy Harper is a	20	Q. Who paid
21	fellow, OB-GYN oncology fellow, and they're paid for	21	A. That's included in what they call indirect.
22	fellowships through the department, so we don't bill	22	Q. Let me finish, Doctor, who paid for Ira and Nicole's
23	for their time.	23	time?
24	Q. I'm marking as Exhibit Number 5 I'm sorry, go ahead.	24	A. My lab.
25	A. Go ahead.	25	Q. When you say your lab, you're talking about your lab at
	Page 35		Page 37
1	Q. You were saying something.	1	Wayne State?
2	A. I said the only time billed to this from the manuscript	2	A. Yes.
3	is my time.	3	Q. And where did the funds come from that your lab could
4	Q. I'm marking this as Exhibit Number 5, a copy of another	4	use to pay Ira and Nicole?
5	document we were provided in advance of the deposition.	5	A. I have discretion funding for my lab.
6	SAED DEPOSITION EXHIBIT NUMBER 5,	6	Q. I'm sorry?
7	DECEMBER 18, 2018 DOCUMENT,	7	A. I have funds available for me to my lab.
8	WAS MARKED BY THE REPORTER	8	Q. Who provides those funds?
9	FOR IDENTIFICATION	9	A. The department.
10	BY MR. HEGARTY:	10	Q. So the department paid for Ira's and Nicole's time to
11	Q. Can you tell me what Exhibit Number 5 is?	11	work on this talc project?
12	A. So this is the cost of this project since the beginning	12	A. Correct.
13	till now from my lab from my side.	13	Q. The total listed there is \$94,957. How much of that
14	Q. This listing of costs was sent to you by a Sharon Pepe?	14	went to Ira and Nicole?
15	A. The contract the grants and contract manager, yes.	15	A. Most of that went to Nicole, I can't remember exact,
	Q. Who is that?	16	but most of that went to Nicole because she was a
16	· ·	17	full-time post doc at the time.
16 17	A. The financial manager of our department, grants and		•
	A. The financial manager of our department, grants and contract.	18	Q. Do you know where the department received the funds
17		18 19	Q. Do you know where the department received the funds that were used to pay Ira and Nicole?
17 18	contract.		
17 18 19	contract. Q. How did she come to send you this document on	19	that were used to pay Ira and Nicole?
17 18 19 20	contract. Q. How did she come to send you this document on December 18, 2018?	19 20	that were used to pay Ira and Nicole? MS. O'DELL: Object to the form.
17 18 19 20 21	contract. Q. How did she come to send you this document on December 18, 2018? A. How come? Q. Yes.	19 20 21	that were used to pay Ira and Nicole? MS. O'DELL: Object to the form. THE WITNESS: I missed that. BY MR. HEGARTY:
17 18 19 20 21 22	contract. Q. How did she come to send you this document on December 18, 2018? A. How come?	19 20 21 22	that were used to pay Ira and Nicole? MS. O'DELL: Object to the form. THE WITNESS: I missed that.

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1	A. Let me explain that. So I get fund from the department	1	A. I can't. I didn't I never thought about it like
2	in the form of an account, and the personnel is billed	2	that.
3	into this account.	3	Q. Does Exhibit Number 5 capture all of the personnel, lab
4	Q. So where did the funds come from that you get access	4	supplies, equipment, services, costs for this project?
5	to?	5	A. From my lab, yes.
6	A. From the department.	6	Q. Have there been any such costs incurred since
7	Q. And where does the department get them from?	7	December 18, 2018?
8	A. Ask them, I don't know. They have fund for scientists	8	A. What's the last date here? Since what's the
9	to do, develop.	9	Q. Since the date of this document, have there been
10	Q. Who would have the receipts of all the expenses and the	10	additional costs incurred for the talc project?
11	costs associated with this project?	11	A. No.
12	A. Sharon.	12	Q. Dr. Saed, we were also provided today with what I'm
13	Q. She notes that the costs listed are for your talc	13	marking as Exhibit Number 6.
14	project from October 1, 2017. Is that the date on	14	SAED DEPOSITION EXHIBIT NUMBER 6,
15 16	which the talc project started incurring expenses?	15	COPY OF CHECK DATED 11/2/2017 FOR \$15,000,
17	A. I think so, yes.Q. The document notes that this does not include your	16 17	WAS MARKED BY THE REPORTER FOR IDENTIFICATION
18	effort costs. What does that mean?	18	FOR IDENTIFICATION BY MR. HEGARTY:
19	A. My salary.	19	Q. Would you please identify for me what Exhibit Number 6
20	Q. Your salary at Wayne State?	20	is.
21	A. Yes.	21	A. This is a retainer check for my consulting work.
22	Q. So you were paid a salary at Wayne State but you were	22	Q. Did you ask for a retainer in connection with your
23	also paid by Beasley Allen to do this talc project,	23	consulting work or did they offer to provide that to
24	correct?	24	you?
25	MS. O'DELL: Object to the form.	25	A. I can't remember.
	Page 39		Page 41
1	THE WITNESS: I was paid as a consultant for	1	Q. With regard to the invoices and the retainer, have you
2	my time.	2	been paid for all the invoices?
3	BY MR. HEGARTY:	3	A. I have been paid for these invoices, yes.
4	Q. Now, all the work that you did on the talc project was	4	Q. So with regard to the amount of the check, that was
5	paid for in an hourly way by Beasley Allen, correct?		
6		5	\$15,000, correct?
	A. No.	6	A. The retainer check? Yes.
7	Q. What time that you spent on the talc project was not	6 7	A. The retainer check? Yes.Q. Yes, and the date of the invoice is October 19, 2017?
7 8	Q. What time that you spent on the talc project was not paid for by Beasley Allen?	6 7 8	A. The retainer check? Yes.Q. Yes, and the date of the invoice is October 19, 2017?A. Which invoice?
7 8 9	Q. What time that you spent on the talc project was not paid for by Beasley Allen?A. It's the time I spent in the lab doing my duties.	6 7 8 9	 A. The retainer check? Yes. Q. Yes, and the date of the invoice is October 19, 2017? A. Which invoice? MS. O'DELL: Object to the form.
7 8 9 10	Q. What time that you spent on the talc project was not paid for by Beasley Allen?A. It's the time I spent in the lab doing my duties.Q. The time you spent in the lab doing your duties on this	6 7 8 9 10	 A. The retainer check? Yes. Q. Yes, and the date of the invoice is October 19, 2017? A. Which invoice? MS. O'DELL: Object to the form. THE WITNESS: Which invoice?
7 8 9 10 11	Q. What time that you spent on the talc project was not paid for by Beasley Allen?A. It's the time I spent in the lab doing my duties.Q. The time you spent in the lab doing your duties on this project?	6 7 8 9 10 11	 A. The retainer check? Yes. Q. Yes, and the date of the invoice is October 19, 2017? A. Which invoice? MS. O'DELL: Object to the form. THE WITNESS: Which invoice? BY MR. HEGARTY:
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	Page 42		Page 44
1	A. The 15,000?	1	submitted by the author section says January 3rd, 2019,
2	Q. Yes.	2	which is after December 26, 2018. So my question is
3	A. Yes.	3	where is the manuscript that was submitted before
4	SAED DEPOSITION EXHIBIT NUMBER 7,	4	December 26, 2018?
5	MOLECULAR BASIS SUPPORTING THE ASSOCIATION OF	5	A. Okay. So when you submit a manuscript, they return
6	TALCUM POWDER USE WITH INCREASED RISK OF OVARIAN	6	they usually give you some corrections or editing to
7	CANCER, WAS MARKED BY THE REPORTER	7	do, and then you do the editing, and then you resubmit
8	FOR IDENTIFICATION	8	the manuscript, so I have both copies. Are you
9	BY MR. HEGARTY:	9	interested to see the one that went to revision versus
10	Q. I'm going to mark next as Exhibit Number 7 a copy of a	10	the one after revision?
11	manuscript we've been provided, which I referenced	11	Q. You have the copy that you initially sent to
12	earlier, the manuscript that I marked as Exhibit	12	Reproductive Sciences which is the one referred to in
13	Number 7 is entitled Molecular Basis Supporting the	13	the e-mail of December 26, 2018?
14	Association of Talcum Powder Use With Increased Risk of	14	A. Sure.
15	Ovarian Cancer. Do you see what I'm referring to,	15	Q. Are there only two drafts of the manuscript, the one
16	Doctor?	16	you submitted prior to December 26, 2018 and the one we
17	A. Yes.	17	marked as Exhibit Number 7?
18	Q. First of all, is this the current version of the paper	18	A. For Reproductive Science, yes.
19	you submitted to Reproductive Sciences?	19	Q. Have you made any revisions to the document that we
20	A. Yes.	20	have marked as Exhibit Number 7?
21	Q. Do you have prior drafts of this paper in your office	21	A. Let's see if I remember, so this is the first which
22	or in your possession?	22	one is this, okay, because there is one original that
23	A. Do I have drafts?	23	we submitted.
24 25	Q. Correct. A. Like	24 25	Q. Correct.A. Went to review, the reviewer asked for some
	Page 43		Page 45
1	Q. Well, let me explain. Go to the very last page of	1	modification, I did it and resubmit it.
2	Exhibit Number 7.	2	Q. Is Exhibit Number I'm sorry, go ahead.
3	A. Okay.	3	A. So this, I can't remember is this the most recent one
4	Q. Very last page.	4	or not.
5	A. Okay.	5	Q. Did you bring a copy today?
6	Q. There's an e-mail there.	6	A. I have a copy.
7	A. Oh.	7	Q. You brought a copy from your office?
8	Q. Of December 26, 2018, which would indicate that you	8	A. Yeah, this is a copy from my office.
9	submitted the paper in advance of that date, yet on the	9	Q. May I see it, please?
10	first page of Exhibit Number 7 it reports the date	10	A. Yes.
11	submitted by the author of January 3rd, 2019. So there	11	SAED DEPOSITION EXHIBIT NUMBER 8,
12	must have been a prior manuscript submitted to	12	MOLECULAR BASIS SUPPORTING THE ASSOCIATION OF
13	Reproductive Sciences before Exhibit Number 7, correct?	13	TALCUM POWDER USE WITH INCREASED RISK OF OVARIAN
14	A. Hold on. I need to digest this. Can you repeat that,	14	CANCER,
15	please?	15	WAS MARKED BY THE REPORTER
16	Q. Sure.	16	FOR IDENTIFICATION
17	A. What are we talking about?	17	BY MR. HEGARTY:
18	Q. The e-mail that you're looking at is dated December 26,	18	Q. I'm going to mark as Exhibit Number 8 a copy of the
19	2018, correct?	19	article or manuscript that Dr. Saed just provided to
20	A. Yes.	20	me. At least the cover page contains the same date
21	Q. That e-mail refers to a manuscript you had submitted,	21	submitted by the author date. Would you look at the
22	which would have been submitted before that date,	22	two Exhibit Number 7 and Exhibit Number 8, and tell me
	correct?	23	whether they are the same?
23			
23 24 25	A. Yes. Q. The first page of Exhibit Number 7 in the date	24 25	Yeah, it looks the same to me. So have there been any additional revisions to the

	Page 46		Page 48
1	manuscript that we've marked as 7 and 8?	1	A. Correct.
2	A. No. We revised it according to the reviewer's comment	2	Q. They, based on correspondence with you, sent that paper
3	and resubmitted it, and then it was officially	3	to peer reviewers, correct?
4	accepted.	4	A. Correct.
5	Q. Did you submit the manuscript to any other journals?	5	Q. How many peer reviewers did they send it to?
6	A. Prior to this?	6	A. I don't know.
7	Q. Prior to this.	7	Q. How many comments back from peer reviewers did you
8	A. Yes.	8	receive, just by peer reviewer number?
9	Q. What journals did you submit to?	9	A. I know, but I'm trying to remember, maybe one or two, I
10	A. OB-GYN Oncology.	10	can't remember, I think two.
11	Q. When did you submit the manuscript to OB-GYN Oncology?	11	Q. You mentioned one of the comments was
12	A. I'm not good on dates.	12	A. But two that they commented. So usually they send it
13	Q. You submitted it before	13	to more. If they have no comments, they don't include
14	A. Prior.	14	them.
15	Q. Prior to submitting it to Reproductive Sciences?	15	Q. One of the reviewers commented that you needed to do
16	A. Correct.	16	additional in vivo animal studies to show the same
17	Q. Are you able to estimate when you completed the	17	effect that you reported in cell cultures that you did,
18	manuscript such that it could be submitted to a	18	correct?
19	journal?	19	MS. O'DELL: Object to form.
20	A. I would say what's the date now September,	20	THE WITNESS: No.
21	October, September maybe around.	21	BY MR. HEGARTY:
22	Q. Did you get a response from OB-GYN Oncology to your	22	Q. What did he say or she say?
23	submission?	23	A. It was said that this is very exciting work,
24	A. I did.	24	interesting work, has a biological relevance, it would
25	Q. What was their response?	25	be interesting to see if this can be shown in vivo.
	Page 47		Page 49
	2		Page 49
1	A. That I needed to do in vivo, additional in vivo animal	1	Q. Do you remember anything else that was said in those
1	_	1 2	
	A. That I needed to do in vivo, additional in vivo animal		Q. Do you remember anything else that was said in those
2	A. That I needed to do in vivo, additional in vivo animal experiments.	2	Q. Do you remember anything else that was said in those comments besides what you provided to us this morning?
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	Page 50		Page 52
1	Q. The manuscript, your cover letter, the letter back, the	1	does it represent all the work that you did that went
2	comments, the comments you received back, do you have	2	into the paper we marked as Exhibit Number 7?
3	all that material?	3	MS. O'DELL: Object to the form.
4	A. Yes.	4	THE WITNESS: So, yeah, so this part starting
5	Q. Is that back in your office?	5	here, from here all the way to the end, that represents
6	A. It's in my office, yes. You talking about manuscript,	6	everything in the manuscript.
7	right?	7	BY MR. HEGARTY:
8	Q. Well, the manuscript and the reviewer comments.	8	Q. You're pointing to 30?
9	A. And the reviewer comments, yes.	9	A. From here, yes.
10	Q. You chose not to do or try to replicate your results in	10	MS. O'DELL: To the end.
11	an in vivo animal model, correct?	11	THE WITNESS: To the end.
12	A. No, it's not correct, I didn't choose, I just don't	12	BY MR. HEGARTY:
13	have the time to do it and the money.	13	Q. What is contained in Pages 1 through 29?
14	Q. Did you submit your manuscript to any other journals	14	A. This is like preliminary trials that we were running,
15	besides OB-GYN Oncology and Reproductive Sciences?	15	testing, so forth, the talc.
16	A. No.	16	Q. Do Pages 1 through 29 represent activities as part of
17	Q. How did you choose to submit your journal first to	17	the work that generated the results contained on
18	OB-GYN Oncology? Why did you choose that journal?	18	Pages 30 thereafter?
19	A. Those, the OB-GYN Oncology and Reproductive Sciences	19	A. No.
20	are the major societies for our specialty, and most	20	Q. What does it represent, then?
21	readers OB-GYN readers read those two manuscripts, I	21	A. It's a trial, it's a pilot experiment to tune-up the
22	mean journals.	22	technique.
23	Q. Of your specialty, which specialty is that?	23	Q. When did this this pilot experiment goes back, at
24	A. Like our like in the field of OB-GYN research.	24	least based on the date of the notebook, to 10-15-17?
25	Q. And what resource do you have that Reproductive	25	A. Correct.
	Page 51		Page 53
1	Sciences is a journal that most in your specialty	1	Q. Is it do you always do pilot experiments before you
2	review or read?	2	do an experiment like this?
3	MS. O'DELL: Object to the form.	3	A. Sure.
4	THE WITNESS: I mean do I have a number? Or	4	Q. Why do you always do a pilot experiment?
5	you mean the source where I got that from?	5	A. You need to figure out the right conditions, right
6	BY MR. HEGARTY:	_	
6	BT MR. HEGARTT:	6	concentration, the right incubation time.
7	Q. Yeah, where did you get that from?		concentration, the right incubation time. Q. And how does a pilot study provide that information?
		6	
7	Q. Yeah, where did you get that from?	6 7	Q. And how does a pilot study provide that information?
7 8	Q. Yeah, where did you get that from?A. From my experience with them for the last 25 years.	6 7 8	Q. And how does a pilot study provide that information?A. I don't understand what you mean.
7 8 9	Q. Yeah, where did you get that from?A. From my experience with them for the last 25 years.Q. Have you published in that journal before?	6 7 8 9	Q. And how does a pilot study provide that information?A. I don't understand what you mean.Q. How does a pilot study provide you with information to
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7 8 9 10 11 12 13 14 15 16 17	 Q. Yeah, where did you get that from? A. From my experience with them for the last 25 years. Q. Have you published in that journal before? A. Yes. Q. Have you published in OB-GYN Oncology before? A. Yes. Q. Is there such a thing as something called an impact factor of a journal? A. Correct. Q. Do you know what the impact factor is of Reproductive Sciences? A. About 3, 2.8 something. 	6 7 8 9 10 11 12 13 14 15 16 17	 Q. And how does a pilot study provide that information? A. I don't understand what you mean. Q. How does a pilot study provide you with information to know you're using the right conditions, the right concentration? A. So when you use a concentration of 1,000 microgram per ml and it kills your cells, you know it's toxic, you should go lower. Q. Is that what you did here? A. Yes. Q. Do you do any other testing like that to determine the parameters of your later tests?
7 8 9 10 11 12 13 14 15 16 17 18	 Q. Yeah, where did you get that from? A. From my experience with them for the last 25 years. Q. Have you published in that journal before? A. Yes. Q. Have you published in OB-GYN Oncology before? A. Yes. Q. Is there such a thing as something called an impact factor of a journal? A. Correct. Q. Do you know what the impact factor is of Reproductive Sciences? A. About 3, 2.8 something. Q. How about OB-GYN Oncology? 	6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. And how does a pilot study provide that information? A. I don't understand what you mean. Q. How does a pilot study provide you with information to know you're using the right conditions, the right concentration? A. So when you use a concentration of 1,000 microgram per ml and it kills your cells, you know it's toxic, you should go lower. Q. Is that what you did here? A. Yes. Q. Do you do any other testing like that to determine the parameters of your later tests? A. Sorry, I don't understand.
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	Page 54		Page 56
1	BY MR. HEGARTY:	1	BY MR. HEGARTY:
2	Q. An example. Do you recall anything specific that you	2	Q. Are you confident that it was one or the other?
3	did in the pilot study that helped you define the	3	A. Yes.
4	parameters of the later study that you did?	4	Q. The lab notebook that we've been provided marked as
5	A. Other than the dose, most of the technology and the	5	Exhibit Number 2 has a first date of 10-15-17. Is that
6	methods that we used, it's really standard in our	6	the first date that there was any lab work done either
7	laboratory, we have published them, we and not just	7	in the pilot study or the later study?
8	us, it's standard accepted technology everywhere in	8	A. No.
9	this field.	9	Q. What is the earliest date of work?
10	Q. And how did the pilot study that's reflected in Exhibit	10	A. May I have this?
11	Number 2 inform you as to the studies study that you	11	Q. Yeah, I'm handing you Exhibit Number 3.
12	did that are reflected in the rest of the pages?	12	A. So the first work that we did with tale, 9-26.
13	A. Yes, so basically we looked at the dose here and this	13	Q. Dr. Saed referred to Exhibit Number 3 and pointed me to
14	pilot study showing that the initial dose was high and	14	a page that's dated 9-26. First of all, what is
15	it was like 500 microgram per ml to a thousand, that's	15	represented or contained in Exhibit Number 3, this lab
16	how we started, and we figured out that this dose	16	notebook?
17	killed the cells and induced some toxicity, so this is	17	A. So this part, okay, so I have to indicate something, we
18	why we learned from this, and then we turned up the	18	share lab notebook, we use them for so not
19	CA-125 assay, this is turning up the assay to see how	19	necessarily one lab notebook for one project. So, for
20	much you need to use. Is it from the media? Is it	20	example, the first part of this lab notebook
21	from the cell? You need to set up all this, and this	21	MS. O'DELL: Which is Exhibit 3.
22	is done in here, and it's described, it's not hidden,	22	THE WITNESS: which is Exhibit 3, looking
23	it's all over, it's all here. But we determined	23	at the effect of a dipeptide on adhesion markers, and
24	basically the dose, and we figured out what is toxic to	24	then we continued with talc, so sometimes we mix up,
25	the cells.	25	like we don't necessarily use one project for one lab
	Page 55		Page 57
1	Q. How did you come to start with the 500 milligram per	1	notebook, okay. So this part of the notebook
2	milliliter dose?	2	BY MR. HEGARTY:
3	A. So we read in the literature prior experiments people	3	Q. The first part?
4	did from 5 all the way to 1,000, and I found the paper	4	A. The first part is for the different study. This part
5	after we did we thought first initial experiment we	5	where we started the actual work with talc.
6	will hit the cells with high concentration, see what	6	Q. When you you started referencing the pages, this
7	happened, and then titrate it down, but then we found	7	part, then what does this part represent being done?
8	it's toxic effect on the cells so and then I came	8	A. This part was an experiment that we did exposing cells,
9	across a paper where they used these small doses that	9	ovarian cancer cells, to talc, Fisher, and look at
10	they found biological effect with, and they used 5, 20	10	oxidative stress markers. We used three ovarian cancer
11	and 100 and up to 500, so I chose the lower range,	11	cell lines, and we used macrophages of normal
12	which is 5, 20, and 100 for my study.	12	epithelial cells. And the result of this work was
1 2	O What paper was that?	1 2	submitted to Society of Donnoductive Investigation
13	Q. What paper was that?	13	submitted to Society of Reproductive Investigation
14	A. That was do you have that paper	14	meeting that was held last year March, yes, last year
14 15	A. That was do you have that paperQ. Is that the Buz'Zard paper?	14 15	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is
14 15 16	A. That was do you have that paperQ. Is that the Buz'Zard paper?A. Let me see, do you have the Buz'Zard	14 15 16	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work.
14 15 16 17	 A. That was do you have that paper Q. Is that the Buz'Zard paper? A. Let me see, do you have the Buz'Zard MS. O'DELL: It's right in your notebook 	14 15 16 17	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work. Q. The poster you pointed to is on Page 63?
14 15 16 17 18	 A. That was do you have that paper Q. Is that the Buz'Zard paper? A. Let me see, do you have the Buz'Zard MS. O'DELL: It's right in your notebook there, Doctor. 	14 15 16 17 18	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work. Q. The poster you pointed to is on Page 63? A. Yes.
14 15 16 17 18	 A. That was do you have that paper Q. Is that the Buz'Zard paper? A. Let me see, do you have the Buz'Zard MS. O'DELL: It's right in your notebook there, Doctor. THE WITNESS: Where do I find it now here? 	14 15 16 17 18 19	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work. Q. The poster you pointed to is on Page 63? A. Yes. Q. Was there a pilot study done before doing this
14 15 16 17 18 19	 A. That was do you have that paper Q. Is that the Buz'Zard paper? A. Let me see, do you have the Buz'Zard MS. O'DELL: It's right in your notebook there, Doctor. THE WITNESS: Where do I find it now here? MS. O'DELL: You might look in your 	14 15 16 17 18 19 20	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work. Q. The poster you pointed to is on Page 63? A. Yes. Q. Was there a pilot study done before doing this experiment?
14 15 16 17 18 19 20	 A. That was do you have that paper Q. Is that the Buz'Zard paper? A. Let me see, do you have the Buz'Zard MS. O'DELL: It's right in your notebook there, Doctor. THE WITNESS: Where do I find it now here? MS. O'DELL: You might look in your references of your report. 	14 15 16 17 18 19 20 21	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work. Q. The poster you pointed to is on Page 63? A. Yes. Q. Was there a pilot study done before doing this experiment? A. So this is a pilot study.
14 15 16 17 18 19 20 21	 A. That was do you have that paper Q. Is that the Buz'Zard paper? A. Let me see, do you have the Buz'Zard MS. O'DELL: It's right in your notebook there, Doctor. THE WITNESS: Where do I find it now here? MS. O'DELL: You might look in your references of your report. THE WITNESS: Right. 	14 15 16 17 18 19 20 21	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work. Q. The poster you pointed to is on Page 63? A. Yes. Q. Was there a pilot study done before doing this experiment? A. So this is a pilot study. Q. So the study that we are looking at dated with the
14 15 16 17 18 19 20 21 22 23	 A. That was do you have that paper Q. Is that the Buz'Zard paper? A. Let me see, do you have the Buz'Zard MS. O'DELL: It's right in your notebook there, Doctor. THE WITNESS: Where do I find it now here? MS. O'DELL: You might look in your references of your report. THE WITNESS: Right. MS. O'DELL: And then we can go from there. 	14 15 16 17 18 19 20 21 22 23	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work. Q. The poster you pointed to is on Page 63? A. Yes. Q. Was there a pilot study done before doing this experiment? A. So this is a pilot study. Q. So the study that we are looking at dated with the start date of 9-26-2017
14 15 16 17 18 19 20 21	 A. That was do you have that paper Q. Is that the Buz'Zard paper? A. Let me see, do you have the Buz'Zard MS. O'DELL: It's right in your notebook there, Doctor. THE WITNESS: Where do I find it now here? MS. O'DELL: You might look in your references of your report. THE WITNESS: Right. 	14 15 16 17 18 19 20 21	meeting that was held last year March, yes, last year in San Diego, and you can see all the way down, this is the poster that resulted from this work. Q. The poster you pointed to is on Page 63? A. Yes. Q. Was there a pilot study done before doing this experiment? A. So this is a pilot study. Q. So the study that we are looking at dated with the

	Page 58		Page 60
1	A. This is a we have many pilot studies. It depends on	1	call from Miss Thompson, you would have still done
2	what marker you're doing the pilot study for. So	2	these studies?
3	there's a pilot study for CA-125. There is a pilot	3	A. Correct.
4	study for the dose. There is a pilot study for cells.	4	Q. Were the studies in the works at the time that Miss
5	So this is a pilot study.	5	Thompson called you?
6	Q. In the other notebook you went from a pilot study to	6	A. I was reviewing literature only.
7	doing a subsequent study.	7	Q. You had not thought about doing actual laboratory
8	A. Correct.	8	studies before Miss Thompson had called you involving
9	Q. Did you do that with this pilot study?	9	talc?
10	A. No, this is only done with this is a preliminary	10	A. I planned it before she called me.
11	study that we did, and we only tested mRNA levels of	11	Q. You had actually planned to do laboratory studies?
12	some oxidative stress markers. The other study that	12	A. Correct.
13	you're referring to with the manuscript, this is a	13	Q. Do you have any documentation of that plan?
14	comprehensive study that looked at every fold of gene	14	A. No.
15	expression from mRNA to DNA to ELISA to activity of	15	Q. Did you talk with anyone and tell them that your plan
16	proteins, everything. This is just simply a pilot	16	was to do studies involving talc before you were called
17	experiment looking at, yes, there is an effect, no,	17	by Miss Thompson?
18	there is not an effect, and, yes, there is an effect,	18	A. We always discussed talking about looking at any
19	so we published it.	19	substance that induces inflammation and oxidative
20	Q. The first date of any study that you did with talc is	20	stress. So we always talk in the lab and with
21	September 26, 2017?	21	colleagues about any substance. Tale was brought up,
22	A. Correct.	22	yes.
23	Q. Who is involved in the study that we looked at in	23	Q. To whom did you speak with about talc and doing an
24	Exhibit Number 3 whose begin date was September 26,	24	experiment about talc before you received a call from
25	2017?	25	Miss Thompson?
	Page 59		Page 61
1	A. That's Nicole King and Ira, and myself.	1	A. I discussed with Nicole.
2	Q. What prompted you to do this initial study?	2	Q. When was that discussion?
3	A. My lab interest is ovarian cancer and oxidative stress,	3	A. I can't remember dates, but we always discussed markers
4	we talked about that, I answered that, the media and,	4	of oxidative stress.
5	you know, what's going on, and this is the core of my	5	Q. Well, you said that you always talk in the lab and with
6	lab specialty is looking at oxidative stress markers,	6	colleagues about any substance. Talc was brought up.
7	inflammation, and ovarian cancer.	7	A. Correct.
8	Q. Is it your testimony that this study with the start	8	Q. What substances had you tested in your lab with regard
9	date of 9-26-2017 was not prompted by your call with	9	to oxidative stress before your study about tale?
10	Miss Thompson?	10	A. We go backwards, we go looking at reducing oxidative
11	MS. O'DELL: Object to the call.	11	stress and looking at mechanisms, or manipulating
12	THE WITNESS: Was not prompted?	12	alteration of oxidative stress, like, for example, we
13	BY MR. HEGARTY:	13	did the work where we added a scavenger of Superoxide
14	Q. Yes.	14	dismutase, which is a very powerful oxidant, and we
15	MS. O'DELL: Object to the form.	15	looked at inducing apoptosis in ovarian cancer cells.
16	BY MR. HEGARTY:	16	We're looking at intervention, changing the cell redox
17	Q. In other words, you would not have done this study or	17	balance, alteration of that balance, it is given, it's
18	the study for which you have submitted a manuscript to	18	accepted in the literature and in our world that cancer
19	Reproductive Sciences if Miss Thompson had not called	19	cells and ovarian cancer cells included, they all have
20	you, correct?	20	characterized by a pro-oxidant state that is given,
21	MS. O'DELL: Object to the form.	21	it's known. So we don't need to show a substance that
22	THE WITNESS: No, I was always interested in	22	induces further that oxidative stress. We are looking
23	doing this.	23	for attenuating and modulating that oxidative stress
	BY MR. HEGARTY:	24	and see the effect, the downstream effect. We have
24 25	Q. So it's your testimony that if you had not gotten a	25	done that, we have published that with looking at SRNA

	Page 62		Page 64
1	to shut down proteins, knock down proteins, we did it	1	Q informal about putting a test together, correct?
2	for myeloperoxidase, we did it for ionase, we did it	2	A. I said I was planning to do this.
3	for SOD so.	3	Q. Okay.
4	Q. But prior to the call you received from Miss Thompson,	4	A. I had a plan to do this.
5	you had never tested any particulate or exposed cells	5	Q. Okay. What was your plan?
6	to any particulate and looked for oxidative stress,	6	A. This is the plan the plan okay, this is important
7	correct?	7	to know, that I have this set up ready in my lab, ready
8	A. No, not correct. I used hypoxia, induced hypoxia and	8	to go. We have all the technology for all these
9	look at normal cells.	9	markers. So it is not hard just to add so when I
10	Q. What particles did you apply to cells in that study?	10	plan, it means I we had used the setup that I
11	A. Hypoxia.	11	already have in my laboratory, that's what I in my
12	Q. What's hypoxia?	12	plan.
13	A. It is the creation of a hypoxic micro environment into	13	Q. But you had not done anything to further that plan?
14 15	the cells. This can be in vivo induced by infection,	14 15	A. Physically, no. Q. Let me finish, you had not done anything to further
16	by wound, by many other factors that do that. Q. Let me clarify my question, then. My question is what	16	that plan until after the call came from Miss Thompson,
17	environmental particles that are not generated in vivo	17	correct?
18	had you ever applied to cells and culture prior to the	18	A. Correct.
19	call from Miss Thompson?	19	Q. Did you discuss at all the makeup of the study or what
20	A. That we published? I don't like a given particle	20	you were going to do with the study or the methods of
21	you're talking about?	21	the study with Beasley Allen before you did them?
22	Q. Correct.	22	A. No.
23	A. No, I don't have any, I never done anything like that.	23	Q. Did you have any discussions at all with attorneys for
24	Q. What studies had you actually planned on doing with	24	Beasley Allen about the concept of the study, the
25	talc before your call before the call came from Miss	25	methods of the study, the protocol of the study, how
	Page 63		Page 65
1 2	Thompson? Had you actually formed the framework of a study?	1 2	the study was going to be done, anything like that? MS. O'DELL: Let me just stop you right
3	A. No, I was just thinking about the overall, it would be	3	there. I think when you're talking about conversations
4	interesting to see if this is this will induce	4	you you're talking about after the time that he's
5	inflammation in our cells, and if it does, then it	5	been engaged by Beasley Allen and those discussions
6	should be linked to the risk of ovarian cancer, so	6	would be protected by the privilege. I'm going to
7	thinking, just talking about it.	7	instruct the witness not to answer.
8	Q. With regard to the manuscript that strike that.	8	MR. HEGARTY: Well, my questions are related
9	With regard to the tests that were part of the	9	solely to the manuscript, the testing in the manuscript
10	manuscript, those tests were done in connection with	10	that has been submitted to Reproductive Sciences. So
11 12	your communications with Beasley Allen, correct? A. Those tests?	11 12	is it your position that all the communications you had
13	A. Those tests? Q. Yes.	13	with regard to the tests done for purposes of the publication Reproductive Sciences and the writing of
14	A. What do you mean by communication?	14	the article, submission of the article, are protected
15	MS. O'DELL: Object to form.	15	by the consulting privilege?
16	BY MR. HEGARTY:	16	MS. O'DELL: Well, and as you know, the
17	Q. Well, you talked with Beasley Allen about doing those	17	substance of the manuscript largely is Dr. Saed's
18	tests, correct, before you did them?	18	expert report, and the work that he did in terms of
19	MS. O'DELL: Object to the form.	19	consulting was paid for by Beasley Allen and he was
20	THE WITNESS: No, I was planning to do them,	20	doing that as a part of the consulting arrangement.
21	anyways.	21	So, yes, to the degree he had conversations with the
22	BY MR. HEGARTY:	22	lawyers, we're going to I'm going to instruct him
	Q. You just said, though, before the call you had not done	23	not to answer.
23			
23 24 25	anything formal or even A. Yeah, I said	24 25	MR. HEGARTY: I'm not going to argue with you. I just want to make sure I'm interesting that

	Page 66		Page 68
1	that's that your objection extends to any question	1	Number
2	that I would ask with regard to communications with	2	A. My lab.
3	Beasley Allen or attorneys for the plaintiffs with	3	Q. Sorry let me finish.
4	regard to the creation of the study, the setup of the	4	A. We already talked.
5	study, the protocol of the study, doing the study,	5	Q. Who paid for the pilot study that's reported in Exhibit
6	writing the manuscript.	6	Number 3?
7	MS. O'DELL: That was not, your question's a	7	MS. O'DELL: Object to the form, to the
8	little bit different than what you just described. You	8	degree it's vague.
9	can ask your questions, there may be some that are	9	MR. HEGARTY: You can answer.
10	appropriate and some not, but as regard the question	10	THE WITNESS: We discussed this, right?
11	that's on the table, I think that's inappropriate and	11	BY MR. HEGARTY:
12	I've instructed him not to answer.	12	Q. Now, the before questions, at least I thought, were
13	BY MR. HEGARTY:	13	limited to the lab costs for and personnel costs for
14	Q. Dr. Saed, did you have any discussions with any	14	the study in exhibit in the first notebook, Number
15	attorneys for Beasley Allen regarding the pilot study	15	2. Did those lab costs reflected in that exhibit,
16	that we talked about in Exhibit Number 3?	16	which is Exhibit Number 5, also cover the pilot study
17	A. What's Exhibit Number 3?	17	that's in notebook that we marked as Exhibit Number 3?
18 19	Q. The one the study that's dated 9-26-2007.	18 19	 The answer, my lab is paid for paid for all the studies that we did.
	MS. O'DELL: Objection, vague.	20	
20 21	THE WITNESS: Again, okay, here is my answer.	21	Q. The
22	No one has interfered with the design of the study, how the study should be done, what assay should be applied,	22	A. Yeah, you can go back five days later.Q. Exhibit Number 5 reports the costs of the talc project
23	what method of analysis should be performed, the	23	dated from October 1st, 2017. This pilot study began
24	writing of the results, the analysis of the results,	24	on September 26, 2017 correct?
25	this is my world, this is my specialty. No one	25	A. Correct.
	this is my world, this is my specialty. The one		71. Conces.
	Page 67		Page 69
1	interfered with that.	1	Q. Is it your testimony that the costs of the pilot study
2	BY MR. HEGARTY:	2	are included in what's listed in Exhibit Number 5?
3	Q. I appreciate that. That was not my question. My	3	MS. O'DELL: Object to the form.
4	question was simply did you have any discussions with	4	THE WITNESS: We started the culturing the
5	attorneys for Beasley Allen or attorneys for plaintiffs	5	cells, so the idea are you talking about the actual
6	in this case with regard to conducting the pilot study	6	money? We started yes, it is included there.
7	that's in Exhibit Number 3 with the start date of	7	BY MR. HEGARTY:
8	9-26-2017?	8	Q. You shook your head. I want to make sure I got it on
9	A. They know that I'm doing this.	9	the record.
10	Q. Did they know that you were doing it at the time that	10	A. Yes.
11	you were doing it?	11	Q. So the costs for the pilot study in Exhibit Number 3
12	A. At this time?	12	that began on September 26, 2017, are contained in
13	Q. Yes.	13	Exhibit Number 5?
14	A. Yes.	14	A. Correct. It takes three weeks to get the cells up and
15	Q. Did you have discussions in advance of doing that study	15	going.
16 17	with them?	16 17	MR. HEGARTY: Want to take a break? We've
17 18	A. I actually designed this whole thing. So when they	18	been going for about an hour and 20 minutes. Take a break.
19	approached me and I got you know, I told them this is what I'm going to do, this is what I have in mind,	19	THE VIDEOGRAPHER: Going off the record at
20	we have all this setup in my lab and I want to do it,	20	10:32 a.m.
21	and I did it.	21	(A short recess was taken.)
22	Q. Did they provide to you any suggestions on how to do	22	THE VIDEOGRAPHER: We're back on the record
23	this study?	23	at 10:51 a.m.
24	A. They don't know nothing about this.	24	BY MR. HEGARTY:
25	Q. Who paid for the pilot study that's reported in Exhibit	25	Q. Dr. Saed, when we left off, we were talking about any
	· 1 1 / 1		, , , , , , , , , , , , , , , , , , , ,

Page 70 Page 72 1 communication you had with Beasley Allen or other 1 the manuscript, the submission of the manuscript; is 2 attorneys for the plaintiffs with regard to the 2 that correct? 3 3 experiments that you did or the preparation of the MS. O'DELL: Object to the form. 4 manuscript that you've submitted to Reproductive 4 BY MR. HEGARTY: 5 Sciences. Over the course of the time that you did the 5 O. You can answer. 6 experiments, that you did the writing, that you 6 A. I said -- I answered you. I said I did not discuss the 7 submitted to Reproductive Sciences, OB-GYN Oncology, 7 design of the experiments, the results of the 8 did you exchange any e-mails or letters with attorneys 8 experiments, where to submit it, how to analyze the 9 9 for Beasley Allen or the plaintiffs with regard to the data, all this work I did myself. 10 10 testing, the writing, the submission of the manuscript? Q. Understood. I'm not asking if they provided input on 11 MS. O'DELL: Objection to form. 11 how to do it or how to write it or where to send it. 12 THE WITNESS: Can you please repeat the 12 I'm asking if you had discussions with any attorney for 13 question, clarify what you --13 Beasley Allen or any other attorney for Plaintiff over BY MR. HEGARTY: 14 the course of doing all this work about what you were 14 15 Q. Sure. Well, during the time that you were doing the 15 16 testing that we've been talking about? 16 A. I still don't understand discussion, what does the 17 17 A. Experiments. discussion mean? 18 Q. -- that's reflected in the lab notebooks, you call them 18 Q. Well, discussion means a phone call, an in-person 19 meeting, an e-.mail? 19 experiments, in the time that you wrote the paper that 20 you first submitted to OB-GYN Oncology and then later 20 A. Oh. 21 to Reproductive Sciences. Did you have communications 21 Q. Any communication that talks about what you're doing. 22 with attorneys for Beasley Allen or any plaintiff in 22 MS. O'DELL: Excuse me, you may answer the 23 this litigation regarding the experiments or regarding 23 question whether calls or meetings occurred, you may 24 the writing of the article or regarding the submission 24 answer that yes or no, but you cannot divulge the 25 25 of the article to journals? discussions or the topics that were included in those Page 71 Page 73 1 discussions. 1 A. No. 2 2 THE WITNESS: Yes, so calls, we did calls. Q. Did you have any telephone calls or meetings during 3 3 the -- about the experiments or the writing of the BY MR. HEGARTY: 4 4 manuscript for the journals or the submission of the Q. And what were the -- what did you discuss with the 5 5 journals with attorneys for Beasley Allen or any attorneys for Beasley Allen or the plaintiffs during 6 6 plaintiff in this litigation? those calls with regard to the experiments you were 7 MS. O'DELL: Objection to the form. 7 doing or the writing of the manuscript or the 8 THE WITNESS: No. 8 submission of the journal? MS. O'DELL: I was just going to instruct you 9 9 MS. O'DELL: I'm going to instruct you not to 10 10 to the degree that you're asking him about subjects answer that question. 11 that were discussed in meetings with attorneys for the 11 MR. HEGARTY: We object to that instruction 12 12 plaintiff, don't discuss those, the subject matter and believe that that is an inappropriate objection and 13 because those, they're not entitled to know those 13 instruction that's not covered by the consultant 14 discussions, so to the degree you can answer your 14 privilege, but we're not going to decide it here, 15 understand that, but I just want to make it clear on 15 questions outside those parameters, you may. 16 THE WITNESS: My answer was no for any 16 the record that we don't agree that your objection 17 17 discussion related to the design of the experiments, covers the kind of communications that I asked the 18 18 the results of the work, the submission to the journal, doctor. 19 which journal to submit to, writing the manuscript, all 19 MS. O'DELL: Well, the privilege covers 20 that work I know the answer was no to that work. 20 communications, whether written or verbal, in person or 21 BY MR. HEGARTY: 21 on the telephone, during Dr. Saed's consulting 22 Q. So as to everything you just described, you had no 22 relationship with the plaintiffs and that's what you've asked him and that's what I'm objecting to. 23 23 discussions with the attorneys for Beasley Allen or any 24 plaintiffs in this case about anything dealing with 24 MR. HEGARTY: I understand the objection. We 25 25 experiments, the design, the protocol the writing of don't agree with the objection.

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1	MS. O'DELL: I want to make sure the record	1	MS. O'DELL: This is not your updated CV
2	is clear.	2	actually, this is the one
3	MR. HEGARTY: And I'm making for the record	3	THE WITNESS: I can find it for you. It's an
4	that we don't agree with the objection and dispute the	4	obstetrics and gynecology online, open access online.
5	propriety of it and object to you instructing the	5	BY MR. HEGARTY:
6	doctor not to respond. With regard to this the work	6	Q. Who within for that publication asked you to write
7	we've been talking about, the pilot study with tale,	7	an editorial?
8	that's reflected in the and the other studies with	8	A. The editorial office.
9	tale that's reflected in the two notebooks, have you	9	Q. And when did that request come in?
10	prepared any other manuscripts related to those	10	A. I think two weeks ago.
11	experiments that you intend to submit to any journal?	11	Q. And editorial on what?
12	THE WITNESS: Other than submitted abstracts	12	A. On talc and oxidative stress.
13	to different meetings, no.	13	Q. Have you started writing it?
14	BY MR. HEGARTY:	14	A. Not yet.
15	Q. Have you prepared abstracts or do you intend to prepare	15	Q. Do you intend to do so?
16	abstracts or have you submitted abstracts regarding the	16	A. Yes.
17	work reflected in the two notebooks that have not yet	17	Q. Did they give you a date
18	been disseminated?	18	A. No.
19	A. Disseminated means	19	Q for submission?
20	MS. O'DELL: Object to form.	20	MS. O'DELL: Let him finish his question,
21	BY MR. HEGARTY:	21	please, Doctor.
22	Q. Well, as we're going to look at here today, there are	22	BY MR. HEGARTY:
23	some abstracts where you describe the work that you're	23	Q. Did they give you a date for providing did they give
24	doing, the experiments that you did. Do you currently	24	you a date for providing the editorial?
25	have in the works any abstracts that have not yet been	25	A. No.
	Page 75		Page 77
1	published or provided to anyone?	1	Q. Is the editorial going to be in response to a journal
2	MS. O'DELL: Object to the form.	2	article or another publication?
3	BY MR. HEGARTY:	3	A. It is in response to the published abstracts that I did
4	Q. Do you understand the question?	4	online.
5	A. Not really.	5	Q. And with regard to the open access publication, is that
6	Q. Well, do you currently have any abstracts that you're	6	a publication that's only available on the internet?
7	working on that you intend to submit?	7	A. Open access, yes.
8	A. Now I understood. In relation to	8	Q. Is that a publication which you have to pay to have
9	Q. The experiments	9	your materials published on the internet?
10	A. In relation to the talc project?	10	A. All open access journals you have to pay, yes.
11	Q. Correct.	11	Q. You will have to pay to have your editorial published?
12	A. The answer is no.	12	A. Yes.
13	Q. Do you have any other written work in process relating	13	Q. How much does that cost?
14	to the talc experiments that you intend to either turn	14	A. Not too much like, 3, \$400.
15	into an abstract or turn into a journal article?	15	MR. LOCKE: Could we ask the witness to speak
16	A. I was asked to write an editorial to one of the	16	up.
17	journals and I am planning to do that.	17	MS. O'DELL: They don't have access to a
18	Q. Who asked you to write an editorial to a journal?	18	speaker, so they're just listening to you over there,
19	A. The journal.	19	so if you could raise your voice.
20	Q. What journal?	20	THE WITNESS: 4, \$500, 400 to 500 where is
21	A. OB-GYN, let me see, I can find the exact name for you,	21	that
21	which I'm planning to do. It's an open access journal	22	MS. O'DELL: That's okay.
22		1 00	MR. HEGARTY: We're past that question,
	obstetrics and gynecology it's in my CV somewhere	23	Mix. The GART 1. We're past that question,
22	obstetrics and gynecology it's in my CV somewhere trying to find it for you where is it this is my	24	Doctor.

BY MR. HEGARTY: Q. We were provided some additional materials this morning that I wanted to make sure I mark for the record and follow up on a few things in those materials. I'm going to mark as Exhibit Number 10 what was represented to us today to be the index for the lab notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that we marked so as Exhibit 10. BY MR. HEGARTY: MR. O'PELL: MR.				Page 80
2 Q. We were provided some additional materials this morning that I wanted to make sure I mark for the record and follow up on a few things in those materials. I'm going to mark as Exhibit Number 10 what was represented to us today to be the index for the lab notebook that has the experiments in it that went into your manuscript. 10 SAED DEPOSITION EXHIBIT NUMBER 10, INDEX FOR LAB NOTEBOOK, I'm NOEX FOR LAB NOTEBOLT. I'm NOEX FOR LAB NOEX FOR				
that I wanted to make sure I mark for the record and follow up on a few things in those materials. I'm so going to mark as Exhibit Number 12 othat was represented to us today to be the index for the lah notebook that we marked as Exhibit Number 2, that's the notebook that we marked as Exhibit Number 2, that's the notebook that has the experiments in it that went into your manuscript. SAED DEPOSITION EXHIBIT NUMBER 10, INDEX FOR LAB NOTEBOOK, ILL WAS MARKED BY THE REPORTER INDEX FOR LAB NOTEBOOK, ILL ORD TENDITICATION INDEX FOR LAB NOTE FOR LA				
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5 Exhibit 10 or 6 MR. HEGARTY: Yes, Exhibit 10, the pages go 7 20-21, then jump to 31-32, and my question is where are 8 Pages 22 to 30? 9 THE WITNESS: 22, you said? 10 BY MR. HEGARTY: 11 Q. Yes. 11 BY MR. HEGARTY: 12 A. 22, 23, 24, 29. Oh, so there's yeah, you talking 13 about the tore apart? 14 Q. We'll get to that part in a second. First of all, why 15 aren't Pages 22 to 29 listed in the index or at least a 16 portion of those? 17 MS. O'DELL: Object to the form. 18 THE WITNESS: 31 21 21, 31, what 19 happened, 21, yeah, there is nothing after that, right? 20 What other project was represented or documente those pages that were removed from this lab notebook just for this work of Q. What other project was represented or documente those pages that were removed from this lab notebook just for this work of Q. What other project was represented or documente those pages that were removed from this lab notebook just for this work of Q. What other project was represented or documente those pages that were removed from this lab notebook just for this work of Q. What of those pages that were removed from this lab notebook just for this work of Q. What affect that talc. 9 Q. What was the project or what is the project? 10 MS. O'DELL: You mean the subject matter 11 BY MR. HEGARTY: 12 A. The same, reactive oxygen species, inflammation ovarian cancer. 13 A. It can't remember, but I can find out. 14 Q. Does it involve exposure to any environmental particulate? 15 A. No. 16 A. I can't remember, but I can find out. 17 Q. Does it involve exposure to any environmental particulate? 18 A. No. 20 Do you know when the pages that we've been talk	3	happened to Pages 22 to 29 I'm sorry, 22 to 30?	3	and because this is talc, there is a litigation and
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20 BY MR. HEGARTY: 20 Q. Do you know when the pages that we've been talk				1
Q. Well, on Exhibit Number 10 it jumps from 21 to 31, and 21 about were removed from this lab notebook?				about were removed from this lab notebook?
where are the nine or ten pages in between those? 22 where are the nine or ten pages in between those? 23 A. I don't remember.				
23 A. Yeah, that's what I'm talking about, those are you 23 Q. Were you aware that they had been removed?				
24 want me to answer for the missing pages? 24 A. Yes.		•		· · · · · · · · · · · · · · · · · · ·
				Q. Have you ever in your experiences in conducting a lab
		<u> </u>		. , ,

	Page 82		Page 84
1	cut out pages of a lab notebook?	1	Q. And Nicole King again is who?
2	A. Have I ever done that? No.	2	A. My research post doc.
3	Q. That's not good laboratory practice, is it?	3	Q. Then on the other lab notebook that contained that
4	MS. O'DELL: Objection to form.	4	was on Exhibit 2. Exhibit 3 on the outside is
5	THE WITNESS: Yes, I the reason I told	5	something called Temple 1. What does that mean?
6	you, I just told you the reason why we did that.	6	A. That's a project that we did for Temple Pharmaceutical
7	BY MR. HEGARTY:	7	in our lab.
8	Q. But my question is that's not proper laboratory	8	Q. That's a project that's that's the project that's in
9	practice to cut out pages of a lab book, is it?	9	the first part of the lab notebook?
10	MS. O'DELL: Object to the form.	10	A. Correct.
11	THE WITNESS: We didn't cut the notes from	11	SAED DEPOSITION EXHIBIT NUMBER 9,
12	them, we just wanted to keep the talc study separate.	12	PILOT STUDY,
13	BY MR. HEGARTY:	13	WAS MARKED BY THE REPORTER
14	Q. Understood, but I'm talking about good laboratory	14	FOR IDENTIFICATION
15	practices, and good laboratory practices don't sanction	15	BY MR. HEGARTY:
16	or allow for you to cut out pages of a laboratory	16	Q. Also provided today, which I'll mark as Exhibit
17	notebook, do they?	17	Number 9, are copies of what I believe to be the pilot
18	MS. O'DELL: Object to the form.	18	study that's contained in Exhibit Number 3. Would you
19	THE WITNESS: We, as you can see, we're not	19	look at Exhibit Number 9 and compare to Exhibit
20	hiding it.	20	Number 3, and tell me whether Exhibit Number 9 are the
21	BY MR. HEGARTY:	21	pages copied from Exhibit Number 3, the pilot project
22	Q. I'm not asking if you're hiding it. I'm asking you, do	22	we talked about earlier along with the index?
23	you is it your testimony that cutting lab cutting	23	A. Yes.
24	pages out of a lab notebook is consistent with good	24	Q. On the first page of or strike that. On Page 1 of
25	laboratory practice?	25	Exhibit Number 2 there's a statement at the very
	Page 83		Page 85
1	MS. O'DELL: Object to the form.	1	beginning that says tried to dissolve tale Fisher 74
2	THE WITNESS: I didn't say that.	2	or Fisher T4-500 lot numbers 166820 in Johnson &
3	BY MR. HEGARTY:	3	Johnson Baby Powder. Do you see that reference? Do
4	Q. You agree it's not consistent with good laboratory	4	you see where I'm reading?
5	practice, don't you?	5	A. You're reading wrong. What is in?
6	MS. O'DELL: Object to the form.	6	Q. In.
7	THE WITNESS: I don't agree.	7	
		· '	A. That's not in.
8	BY MR. HEGARTY:	8	A. That's not in. Q. What is that word?
8 9	Q. You don't agree with what?		Q. What is that word?A. That's or.
9 10	Q. You don't agree with what?A. Okay, I told you the reason why we removed those pages.	8	Q. What is that word?A. That's or.Q. Or Johnson's Baby Powder, okay, and it says it won't
9	Q. You don't agree with what?A. Okay, I told you the reason why we removed those pages.Q. Did you instruct someone to cut those pages out of this	8 9 10 11	Q. What is that word?A. That's or.Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean?
9 10 11 12	Q. You don't agree with what?A. Okay, I told you the reason why we removed those pages.Q. Did you instruct someone to cut those pages out of this notebook?	8 9 10 11 12	Q. What is that word?A. That's or.Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean?A. It won't completely dissolve.
9 10 11 12 13	Q. You don't agree with what?A. Okay, I told you the reason why we removed those pages.Q. Did you instruct someone to cut those pages out of this notebook?A. My lab research assistant was doing different project.	8 9 10 11 12 13	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved?
9 10 11 12 13 14	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab 	8 9 10 11 12 13 14	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial.
9 10 11 12 13 14	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we 	8 9 10 11 12 13 14 15	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form.
9 10 11 12 13 14 15	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. 	8 9 10 11 12 13 14 15	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to
9 10 11 12 13 14 15 16	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. Q. But the other lab notebook you prepared you left in the 	8 9 10 11 12 13 14 15 16	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to know the percentage of how much it's dissolved?
9 10 11 12 13 14 15 16 17 18	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. Q. But the other lab notebook you prepared you left in the pages of the other project, you didn't cut those out, 	8 9 10 11 12 13 14 15 16 17	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to know the percentage of how much it's dissolved? BY MR. HEGARTY:
9 10 11 12 13 14 15 16 17 18	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. Q. But the other lab notebook you prepared you left in the pages of the other project, you didn't cut those out, correct? 	8 9 10 11 12 13 14 15 16 17 18	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to know the percentage of how much it's dissolved? BY MR. HEGARTY: Q. How much is dissolved as reflected in Page 1.
9 10 11 12 13 14 15 16 17 18 19 20	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. Q. But the other lab notebook you prepared you left in the pages of the other project, you didn't cut those out, correct? A. No, because this was a preliminary results and that was 	8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to know the percentage of how much it's dissolved? BY MR. HEGARTY: Q. How much is dissolved as reflected in Page 1. A. Nothing dissolved.
9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. Q. But the other lab notebook you prepared you left in the pages of the other project, you didn't cut those out, correct? A. No, because this was a preliminary results and that was continued, not in the middle, it was continued, so we 	8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to know the percentage of how much it's dissolved? BY MR. HEGARTY: Q. How much is dissolved as reflected in Page 1. A. Nothing dissolved. Q. Whose handwriting is on Page 1?
9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. Q. But the other lab notebook you prepared you left in the pages of the other project, you didn't cut those out, correct? A. No, because this was a preliminary results and that was continued, not in the middle, it was continued, so we only used like few pages from the book. 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to know the percentage of how much it's dissolved? BY MR. HEGARTY: Q. How much is dissolved as reflected in Page 1. A. Nothing dissolved. Q. Whose handwriting is on Page 1? A. This is Nicole I think, I think.
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. Q. But the other lab notebook you prepared you left in the pages of the other project, you didn't cut those out, correct? A. No, because this was a preliminary results and that was continued, not in the middle, it was continued, so we only used like few pages from the book. Q. The lab notebooks contain on the outside, at least one 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to know the percentage of how much it's dissolved? BY MR. HEGARTY: Q. How much is dissolved as reflected in Page 1. A. Nothing dissolved. Q. Whose handwriting is on Page 1? A. This is Nicole I think, I think. Q. Whose handwriting is throughout Exhibit Number 2?
9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. You don't agree with what? A. Okay, I told you the reason why we removed those pages. Q. Did you instruct someone to cut those pages out of this notebook? A. My lab research assistant was doing different project. She was writing it here in the middle of this lab notebook. I asked her let's remove it, continue so we can keep this lab notebook independent. Q. But the other lab notebook you prepared you left in the pages of the other project, you didn't cut those out, correct? A. No, because this was a preliminary results and that was continued, not in the middle, it was continued, so we only used like few pages from the book. 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. What is that word? A. That's or. Q. Or Johnson's Baby Powder, okay, and it says it won't completely dissolve. What does that mean? A. It won't completely dissolve. Q. What was the extent of its that it dissolved? A. Partial. MS. O'DELL: Object to form. THE WITNESS: Yeah, so, okay, so you need to know the percentage of how much it's dissolved? BY MR. HEGARTY: Q. How much is dissolved as reflected in Page 1. A. Nothing dissolved. Q. Whose handwriting is on Page 1? A. This is Nicole I think, I think.

	Page 86		Page 88
1	A. Some Nicole, some others, my research assistant.	1	Q. Does that mean there could be instances where work was
2	Q. Who else's handwriting besides Nicole's are in Exhibit	2	done on that date but then entered later in the lab
3	Number 2?	3	notebook?
4	A. My research assistant.	4	A. Okay, so let me explain how we do this. So we run our
5	Q. Who is that?	5	experiments and we have everything, as you see here,
6	A. Flory, her name is Flory, Flory Rong, I think she's	6	electronically, and we it's a matter of practice
7	part of the authors, yes, her name is, okay, this is	7	of cutting and pasting it in the lab notebook, but
8	the right correction, Fan Rong.	8	everything is done in electronically.
9	MS. O'DELL: How do you spell that?	9	Q. When was this lab notebook, Exhibit Number 2, prepared?
10	THE WITNESS: It's here, F-a-n and then	10	A. I don't know, exact dates?
11	R-o-n-g.	11	Q. Correct.
12	BY MR. HEGARTY:	12	A. I don't know, I can't remember.
13	Q. Isn't it Rong Fan, Doctor?	13	Q. Well, the date the dates run from 10-15-17 to
14	A. Rong Fan? The first name is	14	A. All the way to
15	Q. First name is Rong, right?	15	Q. All the way to
16	A. I think it's the other way around, I'm not expert on	16	A October.
17	names.	17	Q October or so of 2018. So was this notebook
18	Q. Who is Mr. Rong?	18	prepared over that entire period of time?
19	A. Mrs.	19	A. Yes.
20	Q. Mrs. Rong who is that?	20	Q. It wasn't prepared, put together in its entirety four
21	A. She is my research assistant.	21	weeks ago?
22	Q. How long has she been your research assistant?	22	A. Some of it was, yes.
23	A. From I believe the beginning of '18.	23	Q. What portions were put together four weeks ago?
24	Q. But you don't know her name?	24	A. I think the one related to the last portion.
25	A. I know her name, Flory, we call her Flory.	25	Q. Can you point to me the pages that were put together in
	Page 87		Page 89
1	Q. What's her full name?	1	the last month or so?
2	A. This is her full name, how she officially write, it's	2	A. I can't really exactly remember, but the last, I would
3	on the paper.	3	say, the statistical part for sure.
4	Q. And is it according to you, is her name Fan Rong?	4	Q. Starting on what page?
5	A. I call her Flory.	5	A. I'm trying to find it. So starting on Page 114, this
6	Q. Do you know her name?	6	is the statistics of the study, all the way to 19
7	A. That's her name.	7	122, 124, so all the way to the end, which is 124.
8	Q. And how do you pronounce it?	8	This part, it's created by or done by a
9	A. Rong Fan, I never called her with this name.	9	biostatistician, and this is all you can see
10	Q. Who else's handwriting is contained in Exhibit	10	electronics, so we just cut and pasted there.
11	Number 2?	11	Q. So if you go to Page 114, that has a date of October 6,
12	A. Some would be mine.	12	2018. Is it your testimony that this was not prepared
13	Q. Who else?	13	on that date but was prepared later and then back dated
14	A. That's it.	14	to say October 6, 2018?
15	Q. Were all the entries in Exhibit Number 2 prepared at	15	MS. O'DELL: Object to the form, misstates
16	the time that the work was done?	16	his testimony.
17	A. No.	17	BY MR. HEGARTY:
18	Q. When you say no, does that mean that there was work	18	Q. You can answer.
19	done and then the later on entries were made in the	19	MS. O'DELL: If you understand the question.
20	lab notebook?	20	THE WITNESS: What's the question?
21	A. Correct.	21	BY MR. HEGARTY:
22	Q. How much later strike that. If the entries have a	22	Q. Sure. You see the date at the top of that page of
	certain date on them, does that mean that they were	23	October 6, 2018, correct?
23	· · · · · · · · · · · · · · · · · · ·		
23 24	entered on that date or the work was done on that date? A. Work was done on that date.	24 25	A. Correct.Q. Was this page prepared on that date or was it prepared

	Page 90		Page 92
1	at a time later than that but dated October 6, 2018?	1	January 2018, and I'll direct you to Page
2	MS. O'DELL: Object to the form.	2	A. 51.
3	THE WITNESS: Okay, so this I can't	3	Q. Page 53.
4	remember when we did the statistics, but this date	4	A. Of this notebook?
5	reflects when the statistics was actually done.	5	Q. Of the notebook.
6	BY MR. HEGARTY:	6	A. So one more time, the question.
7	Q. So in this instance, the statistics were done on	7	Q. Turn to Page 53 of Exhibit Number 2.
8	October 6, 2018, but was the page prepared later than	8	A. 53?
9	that after October 6, 2018?	9	Q. Yes.
10	A. The pages, yes.	10	A. Okay.
11	Q. With regard to other entries in the notebook that have	11	Q. There's a couple dates at the top of January 3rd, 2018
12	dates, can you tell whether those pages were created on	12	and, also, do you see January 7, 2018 at the top?
13	the date listed on the page or were they created later	13	MS. O'DELL: Excuse me, Mark, what Bates
14	but backdated to the date the work occurred?	14	Number?
15	MS. O'DELL: Objection to form.	15	MR. HEGARTY: I'm looking at I'm using the
16	THE WITNESS: Yeah, so, again, we do the	16	page numbers in the lower right-hand corner.
17	experiment, sometimes it takes a week or two to write	17	THE WITNESS: 53?
18	it in the notebook because we have the data	18	BY MR. HEGARTY:
19	electronically, so I cannot tell you the exact date	19	Q. 53.
20	when they were put in.	20	A. On this date?
21	BY MR. HEGARTY:	21	Q. Yes, 1-7-18. What I'm trying to find out is when was
22	Q. All the data that is reflected in Exhibit Number 2 is	22	the first date that you did
23	kept in electronic format?	23	MS. O'DELL: What's the Bates Number on the
24	A. Yes.	24	document?
25	Q. Does that electronic format still exist?	25	MR. HEGARTY: The Bates Number is 25.
	Page 91		Page 93
1	A. Yes.	1	MS. O'DELL: Okay.
2	Q. Is the data in that electronic format all dated and is	2	BY MR. HEGARTY:
3	the date the data was generated?	3	Q. When is the first date that you started the when did
4	MS. O'DELL: Objection to form.	4	you start the experiments that you then report in your
5	BY MR. HEGARTY:	5	manuscript?
6	Q. You're pointing to an example.	6	A. It says right there, January 3rd we seeded the cells,
7	A. An example.	7	started the experiment.
8	Q. What page is that on?	8	Q. If you go to Page 2 using the Bates let me switch
9	A. June 19.	9	you over to the Bates Numbers because that's what I had
10	Q. What page is that on, Doctor?	10	to work from.
11	A. This is Page oh, no, that's which page was	11	A. Okay.
12	this	12	Q. Let me show you Exhibit Number 1, that's a copy of the
13	Q. It's in the lower right-hand corner.	13	notebook that we've been looking at, Exhibit Number 2.
14	A. I just noticed no, it's this one. Like, for	14	A. Okay. Page 2?
15	example, if you find the dates that are here, these	15	Q. Look at Page 2 of Bates Number
16	dates reflect the time we did the experiment.	16	MS. O'DELL: When he says Bates Number, he's
17	Q. Can you stop at a page and give me an example?	17	referring to the very small number to the right-hand
18	A. I'm trying to find one. So this is February	18	side that's been yes
19	Page 73, if you look here, it says February so	19	THE WITNESS: Where does it say Page 2? Oh,
20	small, February 20th, is that	20	sorry, okay. Page 2?
21	Q. Yes, 2018.	21	BY MR. HEGARTY:
22	A. Right. So that's the date, and that's the date that is	22	Q. Yes, and that has a date of January 24, 2018?
	this experiment performed.	23	A. Yes.
23			
	Q. With regard to the experiments that you did for your manuscript, did those experiments begin in	24 25	Q. Do you see that?A. Yes.

 Q. Then if you go through the next several pages through to Page 23 by Bates Number A. Yes. Q that's dated March 2nd, 2018. Do you see that? A. Yes. Q. Then if you go to Page 25, I'm sorry, if you go to 	1 2 3 4	BY MR. HEGARTY: Q. Sure. As we just looked at, the graphs are all and tables and charts are all dated, correct?
to Page 23 by Bates Number A. Yes. Q that's dated March 2nd, 2018. Do you see that? A. Yes. Q. Then if you go to Page 25, I'm sorry, if you go to	3 4	Q. Sure. As we just looked at, the graphs are all and
A. Yes. Q that's dated March 2nd, 2018. Do you see that? A. Yes. Q. Then if you go to Page 25, I'm sorry, if you go to	4	tables and charts are all dated, correct?
A. Yes. Q. Then if you go to Page 25, I'm sorry, if you go to		
Q. Then if you go to Page 25, I'm sorry, if you go to	_	A. Correct.
	5	Q. Were they added to the notebook at the time they were
	6	created or were they added later?
Page 53	7	A. Which graph you referring to?
A. It's January 7.	8	Q. Any of the tables where the that have been pasted
Q. Well, then you go Page 25 you see January 7, which is	9	in, were they pasted in at the time they were created
not in the same order. So the book doesn't appear to	10	or later?
be in chronologic order, is that correct?	11	MS. O'DELL: Object to the form, asked and
A. Okay, let me answer this. Here is the answer. So we	12	answered.
		THE WITNESS: So you are saying if this graph
		was created the same time that
		BY MR. HEGARTY:
*		Q. We're looking at Page 87, and you're pointing to a
		graph, and my question is with regard to the graph, was it pasted in the notebook on the day it was generated?
*		MS. O'DELL: Objection, asked and answered.
		THE WITNESS: I really can't remember, but we
		have this electronically.
		BY MR. HEGARTY:
		Q. Doctor, if you go to Page 4, Bates Number 4, which
O. Yes.	24	corresponds to Page 33 of the notebook
A. Yes.	25	A. This?
Page 95 Q. See that date?	1	Page 97 Q there appears to be a reference on Page 33 that
A. I imagine it better if I see the notebook.	2	says go to Page 35. Do you see that?
Q. Then if you turn over to Bates 86.	3	A. Okay.
A. 86. 86 that's a different section.	4	Q. How can you know to go to Page 35 when you're on
Q. Okay. There's a date on there of September 4, 2018,	5	Page 33 and 35 is not yet created?
looked like there was a break between June 29th and	6	A. Oh, okay, good question. So this is established
-		protocol, we do this this is not like the first time
-		we're doing this, this is done repeatedly over years
		and years and years with different publication. This
1		is the setup how we write it, so this is like something
		we predicting to happen, this we already know, that's the protocol, we just sticking it here.
		Q. You're anticipating that when you prepare strike
		that. When you prepared Page 33, you're anticipating
-		that you were going to
*		A. Discuss it.
	17	Q discuss it in Page 35?
you can yeah.	18	A. Yes.
Q. And were all the graphs in the notebook provided at a	19	Q. Are the page numbers that you've added at the bottom in
later time or were they provided at the time they were	20	handwriting, are those made in the beginning of the
created?	21	work or are they added as you go? In other words, do
MS. O'DELL: Objection to form.	22	you start with a notebook that's blank and then just
THE WITNESS: Yeah, I don't really understand	23	simply number the pages before you start the work or
the question.	24	you do it after the fact?
	25	A. We do it both ways, I don't remember.
	have sections, this is a PCR section, we left some pages blank, next section is ELISA section, because we're doing the experiments simultaneously, so we wanted to separate each section, so the PCR section we created, we designated certain pages, and then we have ELISA section, and then we have other sections. So every time we do the experiment, we add to the section. That's why the dates are not in chronological order. Q. Okay. If you look at Bates Number 78, Doctor, that page is dated June 29, 2018? A. This one? Q. Yes. A. Yes. Page 95 Q. See that date? A. I imagine it better if I see the notebook. Q. Then if you turn over to Bates 86. A. 86. 86 that's a different section. Q. Okay. There's a date on there of September 4, 2018, looked like there was a break between June 29th and September 4. A. Look at the original here, see that's a section, it's a different section. Q. To the extent that there are periods of time where there is no activity going on, that there might be a month between data entries, does that mean that there's no work going on at that time? A. No, no, no, we do simultaneously different, like we do PCR, we do ELISA, we do proliferation, all that studies, and we divided this notebook into sections, and as we go, we added to the corresponding section, so you can yeah. Q. And were all the graphs in the notebook provided at a later time or were they provided at the time they were created? MS. O'DELL: Objection to form. THE WITNESS: Yeah, I don't really understand	have sections, this is a PCR section, we left some pages blank, next section is ELISA section, because we're doing the experiments simultaneously, so we wanted to separate each section, so the PCR section we created, we designated certain pages, and then we have ELISA section, and then we have other sections. So every time we do the experiment, we add to the section. That's why the dates are not in chronological order. 2. Okay. If you look at Bates Number 78, Doctor, that page is dated June 29, 2018? 2. Yes. 2. Yes. 2. Yes. 2. Yes. 2. Yes. 2. See that date? 2. I imagine it better if I see the notebook. 2. Then if you turn over to Bates 86. 3. A. 86. 86 that's a different section. 2. Okay. There's a date on there of September 4, 2018, looked like there was a break between June 29th and September 4. 3. Look at the original here, see that's a section, it's a different section. 2. To the extent that there are periods of time where there is no activity going on, that there might be a month between data entries, does that mean that there's no work going on at that time? 3. No, no, no, we do simultaneously different, like we do PCR, we do ELISA, we do proliferation, all that studies, and we divided this notebook into sections, and as we go, we added to the corresponding section, so you can — yeah. 3. And were all the graphs in the notebook provided at a later time or were they provided at the time they were created? 3. MS. O'DELL: Objection to form. 3. THE WITNESS: Yeah, I don't really understand the question.

	Page 98		Page 100
1	Q. There's the writing I pointed to is in blue ink	1	BY MR. HEGARTY:
2	versus the other writing, which is in black ink. Was	2	Q. That's not proper laboratory practice, is it?
3	that blue ink added at the time that 33 was created or	3	A. No. What I said is really simple. She probably did a
4	was it added later?	4	mistake and then she whited out and wrote over it.
5	A. I don't remember.	5	Q. Proper laboratory practice is to line through it so the
6	Q. Do you know whose handwriting	6	information that was there is still visible, and then
7	A. Yeah, this is Rong what's her name, Mrs. Rong.	7	include the data somewhere else so everything is
8	Q. Okay. If you look again back at Page 4 of the Bates	8	transparent, correct?
9	Stamped copy.	9	MS. O'DELL: Object to the form.
10	A. Page 4.	10	THE WITNESS: The information that she whited
11	Q. That's Exhibit Number 1.	11	out has nothing to do with the results or anything.
12	A. Same page, 4? That's 4.	12	This is just describing an established methodology that
13	Q. Same Page 4, which is Page 33 of the lab notebook,	13	is published in all of our papers.
14	okay?	14	MR. KLATT: Objection, form, unresponsive.
15	A. Same page.	15	MR. HEGARTY: Understood, but the proper
16	Q. There is a portion of that notebook page that is whited	16	laboratory practice would be to line through it so it
17	out, correct, and written over?	17	could still be visible, and then add the corrected or
18	A. Yeah, I see that.	18	additional information, correct?
19	Q. What was whited out?	19	MS. O'DELL: Object to the form.
20	A. (Shrugs shoulders.)	20	THE WITNESS: My response, as I told you,
21	Q. Do you know?	21	this is something that she probably misspelled or
22	A. I don't know. Again, this is an established procedure	22	mistake she did, she thought she was doing something,
23	that had been published with several, 100 papers over.	23	writing something, she wrote different, you know, we're
24	Q. Well, what established procedure can you cite me to	24	doing different experiment different time, same times.
25	that says that it's proper laboratory practice to white	25	MR. KLATT: Objection, form, nonresponsive.
	Page 00		Dago 101
_	Page 99	_	Page 101
1	out information and then write over it?	1	BY MR. HEGARTY:
2	MS. O'DELL: Object to the form.	2	Q. Doctor, listen to my question. The proper laboratory
3	THE WITNESS: If you like write something	3	practice would be to line through what she whited over
4 5	like a mistake or a typo and you write it over. BY MR. HEGARTY:	4	so that it would still be visible, and then add
5	BT MR. HEGARTT:		14
6	O Com years aits for me any	5	whatever other information she wanted to add to this
6	Q. Can you cite for me any	6	page, correct?
7	A. Cite?	6 7	page, correct? A. If it's related to data.
7 8	A. Cite? Q published guidelines or laboratory methods that say	6 7 8	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper
7 8 9	A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab	6 7 8 9	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct?
7 8 9 10	A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook?	6 7 8 9 10	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and
7 8 9 10 11	 A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook? MS. O'DELL: Objection to form. 	6 7 8 9 10 11	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and give me a moment to object. Object to the form.
7 8 9 10 11 12	 A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook? MS. O'DELL: Objection to form. THE WITNESS: Yeah, umm, what we did here I 	6 7 8 9 10 11 12	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and give me a moment to object. Object to the form. You may answer if you remember his question.
7 8 9 10 11 12	A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook? MS. O'DELL: Objection to form. THE WITNESS: Yeah, umm, what we did here I think this is her handwriting and	6 7 8 9 10 11 12 13	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and give me a moment to object. Object to the form. You may answer if you remember his question. THE WITNESS: What I am trying to tell you,
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7 8 9 10 11 12 13 14 15	A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook? MS. O'DELL: Objection to form. THE WITNESS: Yeah, umm, what we did here I think this is her handwriting and MS. O'DELL: When you say "her," who are you referring to? THE WITNESS: Rong, Mrs. Rong, so nothing	6 7 8 9 10 11 12 13 14 15	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and give me a moment to object. Object to the form. You may answer if you remember his question. THE WITNESS: What I am trying to tell you, if it's something to do with data it is not proper to do, but this is this even shouldn't be in the notebook, we can reference that, it is something that
7 8 9 10 11 12 13 14 15 16 17	A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook? MS. O'DELL: Objection to form. THE WITNESS: Yeah, umm, what we did here I think this is her handwriting and MS. O'DELL: When you say "her," who are you referring to? THE WITNESS: Rong, Mrs. Rong, so nothing really that alarmed me or directed my attention to	6 7 8 9 10 11 12 13 14 15 16 17	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and give me a moment to object. Object to the form. You may answer if you remember his question. THE WITNESS: What I am trying to tell you, if it's something to do with data it is not proper to do, but this is this even shouldn't be in the notebook, we can reference that, it is something that we do in our laboratory so we can be detailed, it's
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook? MS. O'DELL: Objection to form. THE WITNESS: Yeah, umm, what we did here I think this is her handwriting and MS. O'DELL: When you say "her," who are you referring to? THE WITNESS: Rong, Mrs. Rong, so nothing really that alarmed me or directed my attention to anything. She wrote what she supposed to write. Maybe she did a mistake. BY MR. HEGARTY:	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and give me a moment to object. Object to the form. You may answer if you remember his question. THE WITNESS: What I am trying to tell you, if it's something to do with data it is not proper to do, but this is this even shouldn't be in the notebook, we can reference that, it is something that we do in our laboratory so we can be detailed, it's about the procedure, the method, which is already published. BY MR. HEGARTY: Q. But good laboratory practice A. It has nothing to do
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook? MS. O'DELL: Objection to form. THE WITNESS: Yeah, umm, what we did here I think this is her handwriting and MS. O'DELL: When you say "her," who are you referring to? THE WITNESS: Rong, Mrs. Rong, so nothing really that alarmed me or directed my attention to anything. She wrote what she supposed to write. Maybe she did a mistake. BY MR. HEGARTY: Q. Doctor, would you ever in preparing a lab notebook white out information that's been written in a lab notebook and then write over it?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and give me a moment to object. Object to the form. You may answer if you remember his question. THE WITNESS: What I am trying to tell you, if it's something to do with data it is not proper to do, but this is this even shouldn't be in the notebook, we can reference that, it is something that we do in our laboratory so we can be detailed, it's about the procedure, the method, which is already published. BY MR. HEGARTY: Q. But good laboratory practice A. It has nothing to do Q. Let me finish, Doctor good laboratory practice,
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Cite? Q published guidelines or laboratory methods that say that that's a proper approach to preparing a lab notebook? MS. O'DELL: Objection to form. THE WITNESS: Yeah, umm, what we did here I think this is her handwriting and MS. O'DELL: When you say "her," who are you referring to? THE WITNESS: Rong, Mrs. Rong, so nothing really that alarmed me or directed my attention to anything. She wrote what she supposed to write. Maybe she did a mistake. BY MR. HEGARTY: Q. Doctor, would you ever in preparing a lab notebook white out information that's been written in a lab	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	page, correct? A. If it's related to data. Q. So this is not proper, this whiting out is not proper laboratory practice, correct? MS. O'DELL: Let him finish his question, and give me a moment to object. Object to the form. You may answer if you remember his question. THE WITNESS: What I am trying to tell you, if it's something to do with data it is not proper to do, but this is this even shouldn't be in the notebook, we can reference that, it is something that we do in our laboratory so we can be detailed, it's about the procedure, the method, which is already published. BY MR. HEGARTY: Q. But good laboratory practice A. It has nothing to do

	Daga 102		Dago 104
	Page 102		Page 104
1	rather, you're to line through it so it's still	1	that. Do you see that?
2	visible, correct?	2	A. I do.
3	MS. O'DELL: Object to the form.	3	Q. Whose handwriting is reflected by the addition of
4	THE WITNESS: I just told you what I feel.	4	Johnson & Johnson, et cetera?
5	This is an established method, it's nothing to do with	5	A. I think it's Flory, Rong.
6	the data, this is just describing standard methodology,	6	Q. What was under what did she write over?
7	with it or without it, doesn't change anything.	7	A. I don't know, I wasn't there when she wrote this, but
8	BY MR. HEGARTY:	8	when I looked at it I confirmed that this is what we
9	Q. So are you okay or fine with the whiting out of	9	did.
10	information in this lab notebook as was done here?	10	Q. Well, did she write over Fisher Scientific talc?
11	MS. O'DELL: Objection to form.	11	A. Could be.
12	THE WITNESS: What I'm am I fine with	12	Q. But did you actually test Fisher Scientific talc
13	that?	13	instead of Johnson & Johnson and then alter the lab
14	BY MR. HEGARTY:	14	notebook?
15	Q. Yes.	15	MS. O'DELL: Objection, form.
16	A. I prefer that does not happen, but it happened and she	16	THE WITNESS: We actually did both.
17	did it, but that doesn't change anything.	17	BY MR. HEGARTY:
18 19	Q. Above that whited out area there's an arrow pointing to	18 19	Q. You agree it's not proper practice, as reflected here, to white out information in a lab notebook where it
	100 milligrams talc, after the arrow it says Johnson	20	
20	Baby Powder. Do you see where I'm referring to, Doctor?	21	can't be read and then write over it, correct?
21	A. Yes.	21	MS. O'DELL: Objection to form.
22 23		23	THE WITNESS: You keep asking me the same
23	Q. Whose handwriting is that?A. I think it's Flory.	24	question. I'm answering you the same way. She did the
25	Q. Was that information added later than the time this	25	mistakes, to the best of her ability that's what she thought she will do, and I left it because I don't want
23	Q. was that information added rater than the time this	25	thought she will do, and I left it because I don't want
	Page 103		Page 105
1	page was prepared?	1	to change it.
2	A. No.		
	A. No.	2	BY MR. HEGARTY:
3	Q. Can you tell when that information was added to Page 33	2 3	BY MR. HEGARTY: Q. Did you talk to her about the propriety of whiting out
3 4			
	Q. Can you tell when that information was added to Page 33	3	Q. Did you talk to her about the propriety of whiting out
4	Q. Can you tell when that information was added to Page 33 or Bates Number Page 4?	3 4	Q. Did you talk to her about the propriety of whiting out data?
4 5	Q. Can you tell when that information was added to Page 33 or Bates Number Page 4?MS. O'DELL: Objection to the form.	3 4 5	Q. Did you talk to her about the propriety of whiting out data?A. Yes, I did.
4 5 6	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. 	3 4 5 6	Q. Did you talk to her about the propriety of whiting out data?A. Yes, I did.Q. What did you tell her?
4 5 6 7	Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY:	3 4 5 6 7	Q. Did you talk to her about the propriety of whiting out data?A. Yes, I did.Q. What did you tell her?A. I said we should not white out just write underneath
4 5 6 7 8	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY: Q. Why was it added in a way that put it out of order and 	3 4 5 6 7 8	 Q. Did you talk to her about the propriety of whiting out data? A. Yes, I did. Q. What did you tell her? A. I said we should not white out just write underneath it.
4 5 6 7 8 9	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY: Q. Why was it added in a way that put it out of order and had to have a line directing it to another part of the 	3 4 5 6 7 8 9	 Q. Did you talk to her about the propriety of whiting out data? A. Yes, I did. Q. What did you tell her? A. I said we should not white out just write underneath it. Q. When did you have that discussion with her?
4 5 6 7 8 9	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY: Q. Why was it added in a way that put it out of order and had to have a line directing it to another part of the page? 	3 4 5 6 7 8 9	 Q. Did you talk to her about the propriety of whiting out data? A. Yes, I did. Q. What did you tell her? A. I said we should not white out just write underneath it. Q. When did you have that discussion with her? A. After I saw this.
4 5 6 7 8 9 10	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY: Q. Why was it added in a way that put it out of order and had to have a line directing it to another part of the page? A. That's what we did. 	3 4 5 6 7 8 9 10	 Q. Did you talk to her about the propriety of whiting out data? A. Yes, I did. Q. What did you tell her? A. I said we should not white out just write underneath it. Q. When did you have that discussion with her? A. After I saw this. Q. When did you see it?
4 5 6 7 8 9 10 11	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY: Q. Why was it added in a way that put it out of order and had to have a line directing it to another part of the page? A. That's what we did. Q. Why was it not included there in the first place? 	3 4 5 6 7 8 9 10 11	 Q. Did you talk to her about the propriety of whiting out data? A. Yes, I did. Q. What did you tell her? A. I said we should not white out just write underneath it. Q. When did you have that discussion with her? A. After I saw this. Q. When did you see it? A. I think I don't remember.
4 5 6 7 8 9 10 11 12	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY: Q. Why was it added in a way that put it out of order and had to have a line directing it to another part of the page? A. That's what we did. Q. Why was it not included there in the first place? MS. O'DELL: Objection, asked and answered. 	3 4 5 6 7 8 9 10 11 12	 Q. Did you talk to her about the propriety of whiting out data? A. Yes, I did. Q. What did you tell her? A. I said we should not white out just write underneath it. Q. When did you have that discussion with her? A. After I saw this. Q. When did you see it? A. I think I don't remember. Q. Did you see it in the last two weeks?
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4 5 6 7 8 9 10 11 12 13 14	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY: Q. Why was it added in a way that put it out of order and had to have a line directing it to another part of the page? A. That's what we did. Q. Why was it not included there in the first place? MS. O'DELL: Objection, asked and answered. BY MR. HEGARTY: Q. You don't know? A. I don't know. Q. If you look next at Bates Stamp Page 25, which is 	3 4 5 6 7 8 9 10 11 12 13 14	 Q. Did you talk to her about the propriety of whiting out data? A. Yes, I did. Q. What did you tell her? A. I said we should not white out just write underneath it. Q. When did you have that discussion with her? A. After I saw this. Q. When did you see it? A. I think I don't remember. Q. Did you see it in the last two weeks? A. No, no, no, way before. Q. Is it proper methodology for creating for doing experiments and creating a lab book to white start over. Is it proper methodology in doing experiments
4 5 6 7 8 9 10 11 12 13 14 15	 Q. Can you tell when that information was added to Page 33 or Bates Number Page 4? MS. O'DELL: Objection to the form. THE WITNESS: When we prepared the page. BY MR. HEGARTY: Q. Why was it added in a way that put it out of order and had to have a line directing it to another part of the page? A. That's what we did. Q. Why was it not included there in the first place? MS. O'DELL: Objection, asked and answered. BY MR. HEGARTY: Q. You don't know? A. I don't know. 	3 4 5 6 7 8 9 10 11 12 13 14 15	 Q. Did you talk to her about the propriety of whiting out data? A. Yes, I did. Q. What did you tell her? A. I said we should not white out just write underneath it. Q. When did you have that discussion with her? A. After I saw this. Q. When did you see it? A. I think I don't remember. Q. Did you see it in the last two weeks? A. No, no, no, way before. Q. Is it proper methodology for creating for doing experiments and creating a lab book to white start
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	Page 106		Page 108
1	not with the information that is here is accurate,	1	MS. O'DELL: Object to form.
2	we voluntarily did that.	2	THE WITNESS: I didn't cover it, I just
3	BY MR. HEGARTY:	3	showed it to you.
4	Q. I'm not asking you if the information is accurate with	4	BY MR. HEGARTY:
5	my question. My question is, is it proper methodology	5	Q. I'm talking about in the creation of a lab book,
6	in doing experiments like this and in creating the lab	6	though, is it considered proper methodology to take a
7	notebook that corresponds to those experiments to white	7	printout from a test and paste over text in the lab
8	out information and write over it, in your opinion?	8	notebook?
9	MS. O'DELL: Object to the form.	9	MS. O'DELL: Object to the form.
10	THE WITNESS: I mean it's in my personal	10	THE WITNESS: I just told you. So my answer
11	opinion?	11	is the information that she decided to hide this that
12	BY MR. HEGARTY:	12	you're talking about is an established methodology in
13	Q. Correct.	13	my lab that doesn't even need to be here. She chose
14	A. I think if you report that this is what actually	14	to just over it for a space limitation, that's all,
15	happened and a mistake happened and this is, to her	15	but it's not hidden, you can see it.
16	knowledge, this is the best way to handle it, she	16	BY MR. HEGARTY:
17	handled it.	17	Q. Thank you.
18	Q. So you consider the	18	A. If we hide it, we can we don't have to have it
19	A. And I talked to her about it and	19	there.
20	Q. Do you consider the way she handled it to be proper	20	Q. That information, though, was not photocopied and
21	laboratory methodology?	21	provided to us in advance of the deposition, correct?
22	A. That's why I told you, I talked to her about it so I	22	A. What information?
23	don't.	23	Q. The information that was covered by that chart.
24	Q. May I see the notebook?	24	MS. O'DELL: Object to the form.
25	A. Sure.	25	THE WITNESS: I know, I see, there is no
	- 105		
	Page 107		Page 109
1		1	Page 109 information covered by that chart, that is not needed
1 2	Q. Doctor, I'm looking at Page 102 of the notebook, Exhibit Number 2, which is Bates 78. If you want to	1 2	
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2	Q. Doctor, I'm looking at Page 102 of the notebook, Exhibit Number 2, which is Bates 78. If you want to	2	information covered by that chart, that is not needed to be there.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Doctor, I'm looking at Page 102 of the notebook, Exhibit Number 2, which is Bates 78. If you want to look at it A. Okay, yes, I see it. Q either in Exhibit 1 or Exhibit 2. There appears to be something that has been covered over by the table that's been pasted there because I see some handwriting on the far right-hand column, and I don't want to pull that up, but what is under that table or that chart? A. The answer is I don't know. But I'll find out. It's a description of the method. Q. I just want to note for the record that the doctor is pulling the table up and A. Yeah. Q. Okay. A. Do you want to see what's written under? Q. Yes. A. Okay. I want to see, also. Okay. So this is just the oligonucleotide primers and the cyclin for the PCR, this is very standard protocol that you don't need to 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	information covered by that chart, that is not needed to be there. BY MR. HEGARTY: Q. But there is information that's been covered, correct? MS. O'DELL: Object to the form. THE WITNESS: I answered, I said there is not relevant information that is covered, intentionally covered. BY MR. HEGARTY: Q. Over on Page 103 of Exhibit Number 2, Bates Number 79, there is another or other words that have been whited out. What are those other words? MS. O'DELL: Object to the form. THE WITNESS: I mean I can read the word. BY MR. HEGARTY: Q. What is the word? A. It says sample something. Q. Why was that whited out? A. Maybe it doesn't belong here. Q. Do you know why it was whited out?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Doctor, I'm looking at Page 102 of the notebook, Exhibit Number 2, which is Bates 78. If you want to look at it A. Okay, yes, I see it. Q either in Exhibit 1 or Exhibit 2. There appears to be something that has been covered over by the table that's been pasted there because I see some handwriting on the far right-hand column, and I don't want to pull that up, but what is under that table or that chart? A. The answer is I don't know. But I'll find out. It's a description of the method. Q. I just want to note for the record that the doctor is pulling the table up and A. Yeah. Q. Okay. A. Do you want to see what's written under? Q. Yes. A. Okay. I want to see, also. Okay. So this is just the oligonucleotide primers and the cyclin for the PCR, this is very standard protocol that you don't need to even show, it's a methodology, so it doesn't really need to even show that. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	information covered by that chart, that is not needed to be there. BY MR. HEGARTY: Q. But there is information that's been covered, correct? MS. O'DELL: Object to the form. THE WITNESS: I answered, I said there is not relevant information that is covered, intentionally covered. BY MR. HEGARTY: Q. Over on Page 103 of Exhibit Number 2, Bates Number 79, there is another or other words that have been whited out. What are those other words? MS. O'DELL: Object to the form. THE WITNESS: I mean I can read the word. BY MR. HEGARTY: Q. What is the word? A. It says sample something. Q. Why was that whited out? A. Maybe it doesn't belong here. Q. Do you know why it was whited out? A. I think it doesn't belong here. Q. Who whited it out?

	Page 110		Page 112
1	lab notebook?	1	someone to copy this notebook?
2	MS. O'DELL: Objection to the form.	2	A. To scan the notebook.
3	THE WITNESS: I prefer without it but it's	3	Q. Who did you instruct to do that?
4	what it is.	4	A. Flory, my research assistant.
5	BY MR. HEGARTY:	5	Q. And did you instruct her to remove this table on
6	Q. Doctor, would you look at Exhibit Number 1 at Bates	6	Page 84?
7	Stamp 57, please.	7	A. Absolutely not.
8	A. Exhibit Number this is	8	Q. Do you know why it's not there?
9	Q. Yes, what you have in front of you.	9	A. No idea, but the marks of this one are showing, and the
10	A. 57?	10	graph is showing, so this should show up, I don't know
11	Q. Correct. That corresponds to Page 84 of the lab	11	why it's not showing up.
12	notebook. There is now in the lab notebook a table	12	Q. I'm going to direct you to Bates Stamp Page 62.
13	that is pasted there that appears to have been removed	13	A. Same thing.
14	from the page that we received that was photocopied and	14	Q. Which is which corresponds to handwritten Page
15	is part of Exhibit Number 1. Can you explain why our	15	Number 87, there again is a chart
16	copy does not include that table?	16	A. You referring to this one or this one?
17	MS. O'DELL: Object to the form.	17	Q. I'm referring to 87, there again in the copy portion at
18	THE WITNESS: No idea.	18	the upper part of the page there is a table or a chart
19	BY MR. HEGARTY:	19	that is not included in the copy we've been given. Do
20	Q. Okay.	20	you know why that is the case?
21	A. But it's here.	21	MS. O'DELL: Objection to the form.
22	Q. Well, do you know what else	22	THE WITNESS: So I think this is probably
23	A. This is this.	23	technical through scanning, I have no idea the answer
24	Q. Do you know what other charts were removed from the	24	is.
25	copy that we received?	25	
	Page 111		Page 113
1	A. No one removed anything.	1	BY MR. HEGARTY:
2	MS. O'DELL: Excuse me, when you say this is	2	Q. Then under
3	this, I don't know that that's clear on the record	3	A. But we do have all the data.
4	because you're pointing to the notebook.	4	Q. Under that table there appears to be some very vague
5	THE WITNESS: This is the results and this is	5	what appears to be handwriting. Can you explain what
6	the graph from the results.	6	that is? That again is on Bates Stamp 62, Page 87 of
7	BY MR. HEGARTY:	7	the original lab notebook.
8	Q. Well, can you explain to us if this page was copied and	8	A. I don't know what that is.
9	included in Exhibit Number 1, why this chart is not in	9	Q. Doctor, is this lab notebook typical of the lab
10	Exhibit Number 1?	10	notebooks you generate for all the experiments you've
11	A. No idea.	11	conducted?
12	Q. You agree that	12	MS. O'DELL: Object to the form.
13	A. When we scanned it probably didn't show up, I don't	13	THE WITNESS: What do you mean by typical?
14	know.	14	BY MR. HEGARTY:
15	Q. Well, you would agree that it would had to have been	15	Q. Well, is this the things we've talked about here
16	removed, correct; otherwise it would appear on the	16	this morning, would those same things appear in all the
17	paper?	17	lab notebooks that you prepare as part of your
18	A. I don't agree.	18	experiments?
19	Q. Well, you can tell on the copy that there are places	19	MS. O'DELL: Object to the form.
20	there that look like where tape had appeared, correct?	20	THE WITNESS: So for most of our
_	MS. O'DELL: Object to the form.	21	experiments are documented in a lab notebook like this.
21			DV MD HECADTY.
22	THE WITNESS: So same thing here, tape	22	BY MR. HEGARTY:
22 23	appeared and it's there.	23	Q. Do most of your experiments strike that do most
22			

	Page 114		Page 116
1	A. Oh, that's what you're saying?	1	the laboratory notebooks we've been looking at today on
2	Q. Yes.	2	how to prepare lab notebooks, correct?
3	A. No.	3	A. I instruct the lady who did this, yes, how to prepare
4	Q. Have you ever seen one of your other notebooks for your	4	lab notebook.
5	lab experiments have whiteout in them and handwriting	5	Q. Did you ever instruct her about what to do in the case
6	over that whiteout?	6	of needing to correct information that has been written
7	A. It's not a general practice. The answer is I don't	7	in the lab notebook?
8	remember.	8	A. Yes, she actually knows that because on, I already
9	Q. Does your lab have standard operating procedures for	9	instruct her not to do the whiteout, she did it
10	how a lab notebook is to be prepared?	10	anyways, but her defense was, oh, I am only doing it on
11	MS. O'DELL: Objection to the form.	11	words that we already on procedures that is not even
12	THE WITNESS: So from who? From our own lab?	12	supposed to be there, it's like a normal practice
13	BY MR. HEGARTY:	13 14	procedure that we have done many times.
14	Q. Correct.	15	Q. Doctor, if you would turn over to Bates Stamp 25 in
15 16	A. So this is the procedure that we follow for our lab.	16	Exhibit Number 1, which is Page 53 in the notebook. A. ELISA.
16 17	Q. Do you have any written standards on how you are to prepare a lab notebook?	17	A. ELISA. Q. Under the in the section on the upper part of the
18	A. No.	18	page there appears to be documentation of adding tale
18	No. Q. Do you instruct those within your lab on how to prepare	19	to the cells; is that correct?
20	a lab notebook based on any published methods for	20	A. Where do you see that? Cells were seeded, density
21	preparing a lab notebook?	21	Q. Can I look at it, Doctor?
22	A. So most of our work nowadays in the past we used to	22	A. Treat with
23	do a lot of lab notebooks, but most of the work that we	23	Q. This part of the notebook, what is described where
24	do right now, most of it is electronically, and just to	24	you're talking about X1 X2 X3?
25	keep a record in case something happened to electronic	25	A. Okay. These are the dilution of talc that we used, 5
	Page 115		Page 117
1	version, we print it and paste it in the lab notebook.	1	micrograms, 20 micrograms, and 100 micrograms. These
2	So in the past we used to take more precautions for lab	2	are the three doses that we used, and this is how we
3	notebooks, but these days because of this electronic	3	got them.
4	facilities and help, we just print it and paste it	4	Q. With these doses are you adding DMSO?
5	there.	5	A. The talc was dissolved in DMSO.
6	Q. Did you instruct those who prepared the lab notebooks	6	Q. Does the lab notebook show how much DMSO was used for
7	that we've been looking at here today on how to prepare	7	each sample?
8	laboratory notebooks? Did that instruction come from	8	A. How much DMSO? Yeah.
9	you?	9	Q. Yes. Where is that?
10	A. Yes.	10	A. Let me see. So you where is it it's
11	Q. Was that instruction based on any published standards	11	50 milligrams per ml, so one ml, that's the initial
12	in the literature for how to prepare a lab notebook?	12	concentration, 50 milligrams of the talc with one ml of
13	A. That was based on what I've been told since 1983.	13	the DMSO.
14	Q. Where were you taught that in 1983?	14	Q. Did the amount of DMSO increase with the increasing
15 16	A. I did my Ph.D. in molecular biology. Q. Where was that?	15 16	doses of talc? A. No, no, no, no, okay, let me explain this.
17	A. Where?	17	MS. O'DELL: What page were you referring to,
18	Q. Yes.	18	Doctor?
19	A. England.	19	BY MR. HEGARTY:
20	Q. What school in England?	20	Q. Thank you.
21	A. University of Essex.	21	A. The first page.
22	Q. You learned at the University of Essex on how to	22	Q. What's that page number?
23	prepare a laboratory notebook?	23	A. 1.
24	A. Sure.	24	Q. Page 1, okay.
		l	
25	Q. You used that training to instruct those who prepared	25	A. So let me explain this. So we prepare a stock solution

	Page 118		Page 120
1	of the talc powder plus DMSO, the solvent, which is	1	Does the assay work by you measuring the amount of
2	50 milligrams per ml, you can upscale it, downscale it,	2	color change?
3	from there we dilute, as you can see here, it says the	3	MS. O'DELL: Object to the form.
4	exact delusions, and it says X1 times 10 to the 4th	4	THE WITNESS: The answer I just answered
5	microgram per ml, that's what you want to get, and	5	you.
6	that's 15 ml times 5 micrograms per ml, that's the	6	BY MR. HEGARTY:
7	concentration desired, and then you take this will	7	Q. Which is?
8	tell you how much volume you add to the cells. So we	8	A. Are you referring to
9	added 2.35 microliters that correspond to 5 micrograms	9	Q. Well, explain how it works with regard to color.
10	per ml, 10 microliters corresponded to 20, and so on,	10	A. Okay, oh, I would love to, I'll be very happy to do
11	50 corresponded to that, and then the untreated cells	11	that. Okay, so this is measuring the optical density
12	got that DMSO alone.	12	of the concentration of the protein that is correlated
13	MS. O'DELL: What page	13	to the how much protein is there. You measure the
14	BY MR. HEGARTY:	14	optical density absorbance at 5, 62 nanometer, and you
15	Q. The DMSO at 2.5, 10, and 50?	15	construct a standard curve from BSA, and the standard
16	A. DMSO.	16	curve is known concentration, and it tells you when
17	Q. DMSO at 2.5, 10, and 50?	17	it where is the absorption and what's the slope of
18	MS. O'DELL: Excuse me, what page are you	18	the line, and that helps you extrapolate the unknown
19	referring to?	19	samples from your standard curve.
20	THE WITNESS: This Page 53 right here.	20	Q. So is
21	No, so the DMSO has no concentration. The	21	A. It is a colorimetric assay.
22	DMSO is the solvent where you dilute, dissolve the	22	Q. It's measuring a color change, correct?
23	talc.	23	A. No.
24	BY MR. HEGARTY:	24	Q. When you say colorimetric assay, what do you mean?
25	Q. My question is was, though, with regard to the	25	A. It's extension coefficient, it measures BSA at specific
	Page 119		Page 121
1	controls	1	wavelength.
2	A. Volumes, you use volumes.	2	Q. And what did you do to validate that the assay would
3	Q did you, for each level of talc applied to the	3	work with the presence of talc?
4	cells, for the corresponding controls did you also	4	A. What assay?
5	apply DMSO?	5	Q. This assay.
6	A. Yes.	6	A. This assay is not for tale, this assay is a standard
7	Q. At what volume?	7	curve to measure to use a standard for so we can
8	A. It's 2.5, 10, and 50.	8	apply the same amount of protein for each sample.
^	Q. Of DMSO alone?	9	Q. But you are using you are measuring the samples
9	A. Correct.	10	after they've been after talc has been applied,
9 10	Q. If you turn over to Page 55, I'm sorry, 53 in the lab	11	- **
	= · · · · · · · · · · · · · · · · · · ·		correct?
10	notebook, which is Bates Stamped 27 in the copy	12	
10 11	notebook, which is Bates Stamped 27 in the copy version, Page 53.	12 13	correct? A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page.
10 11 12			A. We are measuring each like, for example, okay
10 11 12 13	version, Page 53.	13	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page.
10 11 12 13	version, Page 53. A. This one? Same page?	13 14	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example,
10 11 12 13 14 15	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped	13 14 15	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure
10 11 12 13 14 15	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped 27.	13 14 15 16	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure catalase, you need to compare between samples, right?
10 11 12 13 14 15 16	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped 27. A. Okay.	13 14 15 16 17	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure catalase, you need to compare between samples, right? You need to compare between treated versus untreated.
10 11 12 13 14 15 16 17	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped 27. A. Okay. Q. Is this does this page describe the BCA protein	13 14 15 16 17 18	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure catalase, you need to compare between samples, right? You need to compare between treated versus untreated. How are you how can you determine that you have the
10 11 12 13 14 15 16 17 18	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped 27. A. Okay. Q. Is this does this page describe the BCA protein detection assay?	13 14 15 16 17 18	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure catalase, you need to compare between samples, right? You need to compare between treated versus untreated. How are you how can you determine that you have the same amount of protein? What if you have more protein
10 11 12 13 14 15 16 17 18 19	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped 27. A. Okay. Q. Is this does this page describe the BCA protein detection assay? A. Correct.	13 14 15 16 17 18 19	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure catalase, you need to compare between samples, right? You need to compare between treated versus untreated. How are you how can you determine that you have the same amount of protein? What if you have more protein here than here? The results is not accurate. So we
10 11 12 13 14 15 16 17 18 19 20 21	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped 27. A. Okay. Q. Is this does this page describe the BCA protein detection assay? A. Correct. Q. And does the assay work by measuring the amount of	13 14 15 16 17 18 19 20	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure catalase, you need to compare between samples, right? You need to compare between treated versus untreated. How are you how can you determine that you have the same amount of protein? What if you have more protein here than here? The results is not accurate. So we use BSA as a standard to measure and standardize all
10 11 12 13 14 15 16 17 18 19 20 21	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped 27. A. Okay. Q. Is this does this page describe the BCA protein detection assay? A. Correct. Q. And does the assay work by measuring the amount of color change, that is, the more color change you	13 14 15 16 17 18 19 20 21 22	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure catalase, you need to compare between samples, right? You need to compare between treated versus untreated. How are you how can you determine that you have the same amount of protein? What if you have more protein here than here? The results is not accurate. So we use BSA as a standard to measure and standardize all the samples to the same amount of protein, so the
10 11 12 13 14 15 16 17 18 19 20 21 22 23	version, Page 53. A. This one? Same page? Q. 55, Page 55 of the lab notebook, which is Bates Stamped 27. A. Okay. Q. Is this does this page describe the BCA protein detection assay? A. Correct. Q. And does the assay work by measuring the amount of color change, that is, the more color change you detect, the greater the response it indicates?	13 14 15 16 17 18 19 20 21 22 23	A. We are measuring each like, for example, okay MS. O'DELL: Refer to a specific page. THE WITNESS: Let's say, for example, catalase, so we are measuring catalase, but to measure catalase, you need to compare between samples, right? You need to compare between treated versus untreated. How are you how can you determine that you have the same amount of protein? What if you have more protein here than here? The results is not accurate. So we use BSA as a standard to measure and standardize all the samples to the same amount of protein, so the comparison would be the comparison would be

	2 100		D 104
	Page 122		Page 124
1	BY MR. HEGARTY:	1	A. I am not measuring the protein, I'm measuring catalase.
2	Q. How did you rule out the possibility that the color	2	Q. You're measuring the catalase.
3	change or the wavelength change was due to the talc	3	A. Catalase and control cells versus treated cells, okay,
4	particles themselves as opposed to any effect they were	4	in triplicates.
5 6	having?	5 6	Q. So you measure it once using the same sample, you
7	MS. O'DELL: Object to the form. THE WITNESS: Yeah, so we use the same cell	7	measure the same sample two more times? A. Okay, oh, now I understand your question, okay. So
8	line, we split the cells, we grow the cells, some cells	8	this triplicate is for the assay, so we did one, two,
9	get the talcum powder, the same cells, the other	9	three, four, five, six cell lines in triplicate each
10	aliquot get no talcum powder, we extract proteins, we	10	time point.
11	correct for the differences in the extraction of	11	Q. When you say in triplicate, does that mean you have
12	proteins, and then we run catalase, for example.	12	three sets of petri dishes or are you doing one set of
13	BY MR. HEGARTY:	13	petri dishes and you're doing the test three times?
14	Q. Within the proteins extracted, would there still be	14	MS. O'DELL: Objection.
15	talc particles?	15	THE WITNESS: So it is this one here is
16	A. No, no.	16	one set of petri dish, and it's done in triplicate for
17	Q. How do you know there are not talc particles?	17	each time point.
18	A. Because these are total proteins. You extract	18	BY MR. HEGARTY:
19	proteins. There is a process of extraction of	19	Q. So you didn't for each cell line you didn't have
20	proteins. You wash off all the media, you precipitate	20	three
21	the cells, you lyse the cells, you extract proteins.	21	A. Independent.
22	Q. How many times did you repeat the experiment you just	22	Q independent cultures and then test each independent
23	described for catalase?	23	culture against the others. You had one independent
24	A. So all this work from January 24th till the end of this	24	culture you tested three times?
25	work, it's done in triplicate.	25	MS. O'DELL: Object to the form.
1		,	
1 2	Q. What does being done in triplicate mean?	1 2	BY MR. HEGARTY:
3	A. Every experiment is done in triplicate. Q. Explain that to me.	3	Q. Is that correct? MS. O'DELL: If you need to read his
4	A. Okay. So, for example, if you look at, see how	4	question, it was confusing.
5	Q. What are you looking at?	5	THE WITNESS: Independent cultures, what does
6	A. For example, 56, if you look at 56, look at the table.	6	that mean?
7	MS. O'DELL: Give us just a minute to get	7	BY MR. HEGARTY:
8	there.	8	Q. Well, I tried to use your word.
9	Q. Okay, go ahead.	9	A. I know.
10	A. You have the table?	10	Q. Did you have for each cell line three separate petri
11	Q. Yes.	11	dishes, three petri dishes, so you ran the experiment
12	A. Okay. If you look at the table it says this	12	essentially three times for each cell line or did you
13	particular ovarian cancer cell line, TOV-112-C, you	13	have one petri dish with a cell line in it, extract the
14	have C, you have 5 microgram, you have 20 micrograms,	14	catalase, and run that extraction three times?
15	and you have 100 microgram, you see them? And you can	15	A. No, no, no. How can you okay, I'm confused now.
16	see OD1, OD2, OD3, blank, blank, blank, so triplicate,	16	Okay, so how can you have one petri dish and you
17	three times. The blank three times, the experiment	17	extract three time points of treatment?
18	three times, and subtract from the blank and do the	18	Q. I'm not asking you
19	calculation.	19	A. So we have three, we have three, we have actually four,
20	Q. You're measuring the same protein extracted three	20	one, two, three, four, four independent culture dishes
21	times?	21	for each treatment.
22	MS. O'DELL: Object to the form.	22	Q. Correct.
23	BY MR. HEGARTY:	23	A. That is done in triplicate.
2.4			
24	Q. Is that correct?	24	Q. And what you say in triplicate, that means you're
24 25	Q. Is that correct?	25	taking the extraction and you're testing it three

	Page 126		Page 128
1	times, the same extraction.	1	MS. O'DELL: So you wanted 26 of the Bates,
2	A. For each time point.	2	and that's at the bottom left corner 54.
3	Q. For each time point.	3	THE WITNESS: This?
4	A. Yes.	4	BY MR. HEGARTY:
5	Q. You don't have petri dishes that have the same cells in	5	Q. Yes. Your sample ID for your sample IDs run from
6	it for three separate petri dishes, then doing the	6	356 to 386, is that right?
7	extractions for each of those three petri dishes, do	7	A. So let me understand your question. Are these numbers
8	you follow my question?	8	in serial number?
9	A. Yeah, I follow the question.	9	Q. Are these the sample ID numbers of your tests?
10	MS. O'DELL: Objection.	10	A. Okay, so the sample ID correspond to each specimen,
11	THE WITNESS: You cannot do that because then	11	yes, each cells.
12	you have to do triplicate of triplicate.	12	Q. And those sample IDs run in chronologic order from 356
13	BY MR. HEGARTY:	13	to 386?
14	Q. Exactly.	14	A. No, they're missing. For example, there is 60 where
15	A. Have I done that?	15	is it actually, 84, 85, yes, they are.
16	Q. Yes.	16	Q. So you're right, they jump from 371 to 379, do you see
17	A. No.	17	that?
18	Q. Okay. That was my question.	18	A. Yeah.
19	A. Not for this assay.	19	Q. Why is that?
20	Q. Have you ever done assays like that where you've had	20	A. Because, you see, these are already, these cells were
21	A. Yes.	21	treated in different times, so that's why they get
22	Q multiple?	22	different IDs.
23	MS. O'DELL: Let him finish.	23	Q. Okay.
24	BY MR. HEGARTY:	24	A. This is a lot of work. You can't do it in one time.
25	Q. Have you done assays like that where you've used the	25	Q. What type of test is or strike that. Then if you
	Page 127		Page 129
1	same cell line in three different dishes and done the	1	turn over to Page 69 of Exhibit Number 1, which, again,
1 2	same cell line in three different dishes and done the triplicate, triplicate, triplicate off of each dish?	1 2	turn over to Page 69 of Exhibit Number 1, which, again, my copy doesn't have a handwritten page number on it.
2	triplicate, triplicate off of each dish?	2	my copy doesn't have a handwritten page number on it.
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	Page 130		Page 132
1	Page 100?	1	SAED DEPOSITION EXHIBIT NUMBER 11,
2	A. Yes.	2	NOTEBOOKS,
3	Q. There are again sample numbers listed there. Are those	3	WAS MARKED BY THE REPORTER
4	for a different test?	4	FOR IDENTIFICATION
5	A. This is for different test, this is Caspase-3 activity.	5	BY MR. HEGARTY:
6	Q. Are you using the same sample numbers as in the	6	Q. So Exhibit Number 11 is the notebook you brought with
7	previous test?	7	you to the deposition here today?
8	A. It should indicate here, so 368, 369, 370, so the	8	A. This, yes.
9	answer is yes, some of them, the numbers that	9	MS. O'DELL: There are actually two parts.
10	correspond they are let me see, hold on, let me just	10	BY MR. HEGARTY:
11	make sure. So this is for ELISA, we did the normal	11	Q. There are two parts. Where is the other part?
12	so the answer is yes.	12	MS. O'DELL: It's right here.
13	Q. If you're using the same numbers for different tests,	13	BY MR. HEGARTY:
14	how are you able to keep those straight?	14	Q. Both parts of the notebook contain what?
15	MS. O'DELL: Objection, form.	15	A. So references 86 continued 89.
16	THE WITNESS: Okay. So let me explain this.	16	Q. Did you compile Exhibit Number 11? Did you put that
17	So here, this is the sample ID, the treated cells.	17	together?
18	BY MR. HEGARTY:	18	A. Number 11 we're talking about? Sorry.
19	Q. That's on Page	19	Q. Number 11 are both notebooks.
20	A. 54.	20	A. Yes.
21	Q. Okay.	21	Q. Did you choose the articles to put in Exhibit
22	A. So this is the sample ID, and this is what are they,	22	Number 11?
23	what each cell line definition. Now, this was	23	A. My references from the articles, yes.
24	subjected to isolation of protein, okay, and we use	24	MS. O'DELL: Just I think there's some lack
25	BSA, as we discussed, as a standard, then you isolate	25	of clarity. You chose the articles. Did you copy the
	Page 131		Page 133
1	the total protein from it, now you can do what we did,	1	pages?
2	we can do catalase, we can do SOD, we can do different	2	THE WITNESS: No.
3	markers from total proteins. Caspase-3 is included.	3	BY MR. HEGARTY:
4	Q. Got you, okay thank you. I'm probably going into a	4	Q. Did you put the notebooks together yourself?
5	different section that's going to take a while if you	5	A. No.
6	want to take a break now or keep going.	6	Q. Do you know who put the notebooks together?
7	MS. O'DELL: It's 12:15, Doctor, would you	7	MS. O'DELL: Objection, it's a little vague.
8	like a short break for lunch or what's your preference?	8	THE WITNESS: You guys did it.
9	THE WITNESS: Yes.	9	BY MR. HEGARTY:
9			
10	MR. HEGARTY: Let's go off the record.	10	Q. Counsel for Plaintiffs put the notebooks together?
	MR. HEGARTY: Let's go off the record. THE VIDEOGRAPHER: Going off the record at	10 11	Q. Counsel for Plaintiffs put the notebooks together?A. What do you call them, sorry?
10			
10 11	THE VIDEOGRAPHER: Going off the record at	11	A. What do you call them, sorry?
10 11 12	THE VIDEOGRAPHER: Going off the record at 12:16 p.m.	11 12	A. What do you call them, sorry?Q. Counsel for Plaintiffs put the notebooks
10 11 12 13	THE VIDEOGRAPHER: Going off the record at 12:16 p.m. (A recess was taken.)	11 12 13	 A. What do you call them, sorry? Q. Counsel for Plaintiffs put the notebooks A. Yes, sorry, I'm just having I thought that I put the
10 11 12 13 14	THE VIDEOGRAPHER: Going off the record at 12:16 p.m. (A recess was taken.) THE VIDEOGRAPHER: We are back on the record	11 12 13 14	 A. What do you call them, sorry? Q. Counsel for Plaintiffs put the notebooks A. Yes, sorry, I'm just having I thought that I put the references together, yes.
10 11 12 13 14 15	THE VIDEOGRAPHER: Going off the record at 12:16 p.m. (A recess was taken.) THE VIDEOGRAPHER: We are back on the record at 1:26 p.m.	11 12 13 14 15	 A. What do you call them, sorry? Q. Counsel for Plaintiffs put the notebooks A. Yes, sorry, I'm just having I thought that I put the references together, yes. Q. I want to talk in more detail about Exhibit Number 7.
10 11 12 13 14 15	THE VIDEOGRAPHER: Going off the record at 12:16 p.m. (A recess was taken.) THE VIDEOGRAPHER: We are back on the record at 1:26 p.m. BY MR. HEGARTY:	11 12 13 14 15 16	 A. What do you call them, sorry? Q. Counsel for Plaintiffs put the notebooks A. Yes, sorry, I'm just having I thought that I put the references together, yes. Q. I want to talk in more detail about Exhibit Number 7. That's your manuscript.
10 11 12 13 14 15 16	THE VIDEOGRAPHER: Going off the record at 12:16 p.m. (A recess was taken.) THE VIDEOGRAPHER: We are back on the record at 1:26 p.m. BY MR. HEGARTY: Q. Doctor, you brought with you a notebook that appears to	11 12 13 14 15 16 17	 A. What do you call them, sorry? Q. Counsel for Plaintiffs put the notebooks A. Yes, sorry, I'm just having I thought that I put the references together, yes. Q. I want to talk in more detail about Exhibit Number 7. That's your manuscript. A. Okay.
10 11 12 13 14 15 16 17	THE VIDEOGRAPHER: Going off the record at 12:16 p.m. (A recess was taken.) THE VIDEOGRAPHER: We are back on the record at 1:26 p.m. BY MR. HEGARTY: Q. Doctor, you brought with you a notebook that appears to contain articles and perhaps a number of other	11 12 13 14 15 16 17 18	 A. What do you call them, sorry? Q. Counsel for Plaintiffs put the notebooks A. Yes, sorry, I'm just having I thought that I put the references together, yes. Q. I want to talk in more detail about Exhibit Number 7. That's your manuscript. A. Okay. Q. When did the writing process begin for Exhibit 7? And
10 11 12 13 14 15 16 17 18	THE VIDEOGRAPHER: Going off the record at 12:16 p.m. (A recess was taken.) THE VIDEOGRAPHER: We are back on the record at 1:26 p.m. BY MR. HEGARTY: Q. Doctor, you brought with you a notebook that appears to contain articles and perhaps a number of other documents. What is in the notebook that you have in	11 12 13 14 15 16 17 18	 A. What do you call them, sorry? Q. Counsel for Plaintiffs put the notebooks A. Yes, sorry, I'm just having I thought that I put the references together, yes. Q. I want to talk in more detail about Exhibit Number 7. That's your manuscript. A. Okay. Q. When did the writing process begin for Exhibit 7? And this goes back to the original version that you
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10 11 12 13 14 15 16 17 18 19 20 21	THE VIDEOGRAPHER: Going off the record at 12:16 p.m. (A recess was taken.) THE VIDEOGRAPHER: We are back on the record at 1:26 p.m. BY MR. HEGARTY: Q. Doctor, you brought with you a notebook that appears to contain articles and perhaps a number of other documents. What is in the notebook that you have in front of you? A. So I have my report that I submitted, my CV, and my references.	11 12 13 14 15 16 17 18 19 20 21 22	 A. What do you call them, sorry? Q. Counsel for Plaintiffs put the notebooks A. Yes, sorry, I'm just having I thought that I put the references together, yes. Q. I want to talk in more detail about Exhibit Number 7. That's your manuscript. A. Okay. Q. When did the writing process begin for Exhibit 7? And this goes back to the original version that you submitted to A. Yes. Q OB-GYN Oncology.

	Page 134		Page 136
1	Q. Dr. Fletcher is identified as the lead author. How did	1	article besides those we talked about?
2	that come about?	2	A. No, so she that's why she's in the acknowledgment,
3	A. She is not the lead author.	3	not in the authorship, because she was repeating
4	Q. Who is the lead author?	4	experiments.
5	A. I am.	5	Q. In connection with the experiments that you conducted
6	Q. The reason I thought she was lead author is on the	6	that went into preparing or that led to preparing of
7	second page of Exhibit Number 7 after the title she's	7	this manuscript, did you prepare a proposal to request
8	the first author listed.	8	funding of the experiments in the article?
9	A. That's lead author is the corresponding author,	9	MS. O'DELL: Object to the form.
10	that's me.	10	THE WITNESS: I created a budget so to see
11	Q. What was the involvement of strike that. What was	11	how much this will cost me.
12	Dr. Fletcher's involvement in the preparation of this	12	BY MR. HEGARTY:
13	article?	13	Q. When you seek funding from NIH, for example, or another
14	A. So for the articles, she helped in doing the on this	14	organization, you have to prepare a formal grant
15	article or experiments, the whole thing, or just this	15	request where you set out and provide certain
16	article?	16	information describing what you intend to do and how
17	Q. Just on the article.	17	much it's going to cost, correct?
18	A. Okay, so her role was basically reading after me make	18	A. For NIH?
19	sure that the methods are what we really used, typos	19	Q. Yes.
20	and like help read proofing.	20	A. Yes.
21	Q. What was Dr. Harper's involvement in preparation of the	21	Q. Did you prepare any kind of grant request in connection
22	manuscript?	22	with the experiments that went into preparing this
23	A. Analysis of data, interpretation of data, she's a	23	manuscript?
24	clinical OB-GYN oncologist.	24	MS. O'DELL: Object to the form, other than
25	Q. What was Dr or, I'm sorry, what was Ira Memaj?	25	he's testified to.
	Page 135		Page 137
1	A. Ira Memaj was a medical student that helped also in	1	THE WITNESS: The answer is no.
2	looking for the grammar and proofreading mostly.	2	BY MR. HEGARTY:
3	Q. What was Rong Fan's involvement?	3	Q. Did you submit the budget you created to anybody?
4	A. Same thing. Now, the authors that are here, not	4	A. Official funding agencies, no.
5	necessarily because they participated in writing the	5	Q. Did you provide the budget to Counsel for Plaintiffs,
6	manuscript, but they own the authorship because they	6	Beasley Allen?
7	participated in the work that created the manuscript.	7	A. I can't remember.
8	Q. What was Robert Morris's Dr. Robert Morris's	8	O D (111 C4 1 1 49
Ω			Q. Do you still have a copy of the budget?
9	A. Dr. Morris is the OB-GYN Oncology chief, and he helped	9	A. I do.
10	A. Dr. Morris is the OB-GYN Oncology chief, and he helped in also editing the manuscript and help interpretation		
		9	A. I do.
10	in also editing the manuscript and help interpretation	9 10	A. I do.Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments?
10 11 12 13	in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author?	9 10 11 12 13	A. I do.Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments?A. In writing?
10 11 12 13 14	in also editing the manuscript and help interpretation of data clinically.Q. Who prepared the original manuscript? Who was the author?A. I did.	9 10 11 12 13 14	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing.
10 11 12 13 14 15	in also editing the manuscript and help interpretation of data clinically.Q. Who prepared the original manuscript? Who was the author?A. I did.Q. Did anyone help you write the original manuscript?	9 10 11 12 13 14 15	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember.
10 11 12 13 14 15	in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No.	9 10 11 12 13 14 15	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike
10 11 12 13 14 15 16	 in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No. Q. Did anyone in any way contribute to the manuscript 	9 10 11 12 13 14 15 16	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike that. Is that something you commonly do in your work
10 11 12 13 14 15 16 17	 in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No. Q. Did anyone in any way contribute to the manuscript besides those individuals listed in Exhibit Number 7? 	9 10 11 12 13 14 15 16 17	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike that. Is that something you commonly do in your work in connection with doing studies that then go into a
10 11 12 13 14 15 16 17 18	 in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No. Q. Did anyone in any way contribute to the manuscript besides those individuals listed in Exhibit Number 7? A. No. 	9 10 11 12 13 14 15 16 17 18	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike that. Is that something you commonly do in your work in connection with doing studies that then go into a journal article?
10 11 12 13 14 15 16 17 18 19	 in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No. Q. Did anyone in any way contribute to the manuscript besides those individuals listed in Exhibit Number 7? A. No. Q. Over on Page 12 in the Acknowledgments section there's 	9 10 11 12 13 14 15 16 17 18 19 20	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike that. Is that something you commonly do in your work in connection with doing studies that then go into a journal article? MS. O'DELL: Object to the form.
10 11 12 13 14 15 16 17 18 19 20 21	 in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No. Q. Did anyone in any way contribute to the manuscript besides those individuals listed in Exhibit Number 7? A. No. Q. Over on Page 12 in the Acknowledgments section there's a notation thanking Imaan Singh. 	9 10 11 12 13 14 15 16 17 18 19 20 21	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike that. Is that something you commonly do in your work in connection with doing studies that then go into a journal article? MS. O'DELL: Object to the form. THE WITNESS: So the way I do this, this
10 11 12 13 14 15 16 17 18 19 20 21	 in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No. Q. Did anyone in any way contribute to the manuscript besides those individuals listed in Exhibit Number 7? A. No. Q. Over on Page 12 in the Acknowledgments section there's a notation thanking Imaan Singh. A. Yes, she was a medical student. 	9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike that. Is that something you commonly do in your work in connection with doing studies that then go into a journal article? MS. O'DELL: Object to the form. THE WITNESS: So the way I do this, this is again, this is routinely done in our lab, and we
10 11 12 13 14 15 16 17 18 19 20 21 22 23	in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No. Q. Did anyone in any way contribute to the manuscript besides those individuals listed in Exhibit Number 7? A. No. Q. Over on Page 12 in the Acknowledgments section there's a notation thanking Imaan Singh. A. Yes, she was a medical student. Q. What did Imaan Singh do?	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike that. Is that something you commonly do in your work in connection with doing studies that then go into a journal article? MS. O'DELL: Object to the form. THE WITNESS: So the way I do this, this is again, this is routinely done in our lab, and we ran a pilot experiment using PCR, using single dose,
10 11 12 13 14 15 16 17 18 19 20 21	in also editing the manuscript and help interpretation of data clinically. Q. Who prepared the original manuscript? Who was the author? A. I did. Q. Did anyone help you write the original manuscript? A. No. Q. Did anyone in any way contribute to the manuscript besides those individuals listed in Exhibit Number 7? A. No. Q. Over on Page 12 in the Acknowledgments section there's a notation thanking Imaan Singh. A. Yes, she was a medical student.	9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. I do. Q. Did you prepare any type of protocol or outline in advance of the experiments describing the methods or goals of the experiments? A. In writing? Q. In writing. A. I don't remember. Q. Is that something that's commonly done or strike that. Is that something you commonly do in your work in connection with doing studies that then go into a journal article? MS. O'DELL: Object to the form. THE WITNESS: So the way I do this, this is again, this is routinely done in our lab, and we

	Page 138		Page 140
1	and which is the whole study.	1	BY MR. HEGARTY:
2	BY MR. HEGARTY:	2	Q. So tell me again what meetings this
3	Q. Do you prepare that plan in writing?	3	A. SRI.
4	A. In writing?	4	Q testing was presented.
5	Q. Yes.	5	A. SRI March 2018, and then if I recall correctly, ASRM
6	A. I really don't need to because it's the technology	6	October
7	again, it is all applied in our laboratory, and we are	7	MS. O'DELL: ASRM, is that what you're
8	testing the markers that we been extensively publishing	8	saying?
9	on and testing through our lab.	9	THE WITNESS: No, it wasn't ASRM. I forgot
10	Q. For any articles that you have published in scientific	10	which the other one SGO, SGO, I forgot where I
11	journals, have you ever prepared an outline or protocol	11	submitted, sorry, but I did submit two abstracts and I
12	describing what you're going to do before you actually	12	presented them in national meetings, SRI for sure was
13	do the experiments?	13	March I believe it was SGO.
14	MS. O'DELL: Object to the form.	14	MS. O'DELL: For the record, Doctor, what
15	THE WITNESS: Yeah, so, again, I'm just	15	does SGO stand for?
16	trying to explain to you that the methodology is in	16	THE WITNESS: Society of Gynecology and
17	place, it's in the lab, it's been published, it's been	17	Oncology.
18	referenced, and we test the same markers over and over,	18	BY MR. HEGARTY:
19	so there is no need to every time write this down.	19	Q. In March of 2018?
20	BY MR. HEGARTY:	20	A. The SRI meeting, yes, that was the preliminary study.
21	Q. But have you ever prepared in connection with a journal	21	Q. The lab notebook you provided includes entries for work
22	article you're going to hopefully write after doing	22	that occurred after March 2018, correct?
23	experiments an outline or an overview or a summary of	23	A. Correct.
24	what you're going to do before you then go on and do	24	Q. What did you then present in March of 2018?
25	it?	25	A. We presented the work that we did preliminary just to
	Page 139		Page 141
1	A. We write the methodology.	1	show the effect on using just PCR.
2	Q. So you have written methodologies for what you're going	2	Q. Did you discuss the contents of the manuscript, Exhibit
3	to do before you actually start the experiments?	3	Number 7, with anyone besides the authors during the
4	MS. O'DELL: Object to the form, that's not	4	time it was being written?
5	what he said.	5	A. No.
6	THE WITNESS: Not this experiment.	6	Q. Did you discuss the contents of the manuscript during
7	BY MR. HEGARTY:	7	the time it was being written with attorneys for
8	Q. On other occasions you have done that?	8	Beasley Allen or any other Plaintiff's Counsel in this
9	A. Yes.	9	case?
10	Q. On other occasions when you have published articles in	10	MS. O'DELL: Don't discuss I'm going to
11	scientific and medical journals?	11	instruct you not to answer that question.
12	A. Not all the times, no.	12	BY MR. HEGARTY:
13	Q. When is it that you do prepare an outline or protocol?	13	Q. Doctor, if you would turn to
14	A. When it is something that is not routinely daily test	14	UNIDENTIFIED ATTORNEY: Excuse me, was that a
15	that is performed in our laboratory, something	15	yes or no question? You're instructing him not to
	different.	16	answer whether he discussed the contents?
16	Q. Did you discuss the results of the testing or the	17	MS. O'DELL: Well, the question presupposes
16 17	Q. Did you discuss the results of the testing of the	18	the subject matter of the discussion and that's the
17	experiments with anyone outside of the authors on the		-
17 18	experiments with anyone outside of the authors on the		so I'm going to instruct him not to answer the
17 18 19	manuscript?	19	so I'm going to instruct him not to answer the
17 18 19 20	manuscript? MS. O'DELL: Objection to form.	19 20	question.
17 18 19 20 21	manuscript? MS. O'DELL: Objection to form. THE WITNESS: Yes, so the answer I'm	19 20 21	question. BY MR. HEGARTY:
17 18 19 20 21 22	manuscript? MS. O'DELL: Objection to form. THE WITNESS: Yes, so the answer I'm sorry, that wasn't the answer. This part of this work	19 20 21 22	question. BY MR. HEGARTY: Q. Doctor, would you turn to Page 12 of Exhibit 7, please.
17 18 19 20 21 22 23	manuscript? MS. O'DELL: Objection to form. THE WITNESS: Yes, so the answer I'm sorry, that wasn't the answer. This part of this work was accepted and presented at national meetings, was	19 20 21 22 23	question. BY MR. HEGARTY: Q. Doctor, would you turn to Page 12 of Exhibit 7, please. Did you prepare the Conflict of Interest section on
17 18 19 20 21 22	manuscript? MS. O'DELL: Objection to form. THE WITNESS: Yes, so the answer I'm sorry, that wasn't the answer. This part of this work	19 20 21 22	question. BY MR. HEGARTY: Q. Doctor, would you turn to Page 12 of Exhibit 7, please.

	Page 142		Page 144
1	Q. For whom did you act as a consultant for a fee?	1	A. No reason, I could add this
2	A. Beasley Allen.	2	Q. You say in the disclosure that you acted as a
3	Q. Why didn't you disclose Beasley Allen in this Conflict	3	consultant regarding this topic for a fee. What was
4	of Interest disclosure?	4	the fee?
5	A. The name you mean?	5	A. What was the fee?
6	Q. Yes.	6	Q. Yes.
7	A. Just add the name? I didn't do it.	7	A. I think \$600 an hour.
8	Q. At the time you prepared this manuscript, you were	8	Q. Was the fee the total amount you gave us for your
9	acting as a consultant for Beasley Allen in litigation	9	invoices at the beginning of the deposition?
10	involving the topic of this paper, correct?	10	A. Yes. No?
11	A. Correct.	11	MS. O'DELL: Sorry, I was going to object, it
12	Q. But you didn't identify that in the Conflict of	12	was a little unclear, but I think you understood his
13	Interest disclosure that you were acting as a	13	question.
14	consultant in litigation involving this topic for a	14	BY MR. HEGARTY:
15	fee, correct?	15	Q. Doctor, don't you agree that anyone reading this
16	MS. O'DELL: Objection to form.	16	article should know that you are a paid expert for
17	THE WITNESS: The journal, this is sufficient	17	lawyers who have a financial interest in this subject
18	language for the journal.	18	area?
19	BY MR. HEGARTY:	19	MS. O'DELL: Object to the form.
20	Q. But you did not disclose that you were acting as a	20	THE WITNESS: Again, my response would be I
21	consultant in litigation involving this topic, correct?	21	put the conflict of interest that I'm acting as a
22	MS. O'DELL: Objection to form.	22	consultant on this topic.
23	THE WITNESS: This is what I disclosed.	23	BY MR. HEGARTY:
24	BY MR. HEGARTY:	24	Q. Don't you think the
25	Q. At the time you prepared this disclosure, you were	25	
	Page 143		Page 145
1	acting as a consultant strike that. At the time	1	A for a fee.
2	that you prepared this conflict of interest, you were	2	Q. Don't you think the potential readers of this article
3	acting as a named testifying expert in the	3	are entitled to know that you are using this article to
4	litigation in the talc litigation for plaintiffs	4	profit on this topic?
5	lawyers, correct?	5	MS. O'DELL: Objection to form.
6	A. Is that the same question? Yes.	6	THE WITNESS: This is the language that is
7	Q. So at the time that you prepared this disclosure, you	7	requested by the journal.
8	were not just a consultant, you were a testifying	8	BY MR. HEGARTY:
9	expert witness in litigation, correct?	9	Q. Don't you think that anyone reading this article would
10	MS. O'DELL: Objection to form.	10	want to know that you have a financial interest in this
	THE WITNESS: As far as I know, I'm a	11	topic?
11			A T. 1 1 C C C
11 12	consultant, witness expert to consult in this matter,	12	A. It says clearly fee, for a fee.
	consultant, witness expert to consult in this matter, yes.	12 13	A. It says clearly fee, for a fee. Q. You don't identify, though, the area of this topic in
12	•		
12 13	yes.	13	Q. You don't identify, though, the area of this topic in
12 13 14	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the acknowledgment, that is, this relationship that you	13 14	Q. You don't identify, though, the area of this topic in which you're consulting, correct?
12 13 14 15	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the	13 14 15	Q. You don't identify, though, the area of this topic in which you're consulting, correct?MS. O'DELL: Objection to form.
12 13 14 15	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the acknowledgment, that is, this relationship that you	13 14 15 16	 Q. You don't identify, though, the area of this topic in which you're consulting, correct? MS. O'DELL: Objection to form. THE WITNESS: So for the reader of this, our
12 13 14 15 16 17	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the acknowledgment, that is, this relationship that you were a designated testifying expert in litigation	13 14 15 16 17	Q. You don't identify, though, the area of this topic in which you're consulting, correct? MS. O'DELL: Objection to form. THE WITNESS: So for the reader of this, our readers, it's enough to say I'm a consultant for a fee
12 13 14 15 16 17	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the acknowledgment, that is, this relationship that you were a designated testifying expert in litigation involving tale and ovarian cancer, correct?	13 14 15 16 17 18	Q. You don't identify, though, the area of this topic in which you're consulting, correct? MS. O'DELL: Objection to form. THE WITNESS: So for the reader of this, our readers, it's enough to say I'm a consultant for a fee on this topic.
12 13 14 15 16 17 18	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the acknowledgment, that is, this relationship that you were a designated testifying expert in litigation involving talc and ovarian cancer, correct? A. The language that I wrote here was sufficient by the	13 14 15 16 17 18	 Q. You don't identify, though, the area of this topic in which you're consulting, correct? MS. O'DELL: Objection to form. THE WITNESS: So for the reader of this, our readers, it's enough to say I'm a consultant for a fee on this topic. BY MR. HEGARTY:
12 13 14 15 16 17 18 19	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the acknowledgment, that is, this relationship that you were a designated testifying expert in litigation involving tale and ovarian cancer, correct? A. The language that I wrote here was sufficient by the journal.	13 14 15 16 17 18 19 20	 Q. You don't identify, though, the area of this topic in which you're consulting, correct? MS. O'DELL: Objection to form. THE WITNESS: So for the reader of this, our readers, it's enough to say I'm a consultant for a fee on this topic. BY MR. HEGARTY: Q. You are getting paid in this litigation to testify on
12 13 14 15 16 17 18 19 20 21	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the acknowledgment, that is, this relationship that you were a designated testifying expert in litigation involving talc and ovarian cancer, correct? A. The language that I wrote here was sufficient by the journal. MR. KLATT: Objection, nonresponsive.	13 14 15 16 17 18 19 20 21	 Q. You don't identify, though, the area of this topic in which you're consulting, correct? MS. O'DELL: Objection to form. THE WITNESS: So for the reader of this, our readers, it's enough to say I'm a consultant for a fee on this topic. BY MR. HEGARTY: Q. You are getting paid in this litigation to testify on behalf of plaintiffs, correct?
12 13 14 15 16 17 18 19 20 21 22	yes. BY MR. HEGARTY: Q. You did not disclose this relationship in the acknowledgment, that is, this relationship that you were a designated testifying expert in litigation involving talc and ovarian cancer, correct? A. The language that I wrote here was sufficient by the journal. MR. KLATT: Objection, nonresponsive. BY MR. HEGARTY:	13 14 15 16 17 18 19 20 21 22	 Q. You don't identify, though, the area of this topic in which you're consulting, correct? MS. O'DELL: Objection to form. THE WITNESS: So for the reader of this, our readers, it's enough to say I'm a consultant for a fee on this topic. BY MR. HEGARTY: Q. You are getting paid in this litigation to testify on behalf of plaintiffs, correct? A. Yes.

	Page 146		Page 148
1	THE WITNESS: It's part of it is in the	1	BY MR. HEGARTY:
2	manuscript and part of it is not.	2	Q. The rest of the conflict of interest disclosure says
3	BY MR. HEGARTY:	3	that no other the authors declare the other
4	Q. You stand to benefit financially to the extent	4	authors declare there are no conflicts of interest; do
5	Plaintiff's Counsel use your article successfully in	5	you see that?
6	this litigation, correct?	6	A. I do.
7	MS. O'DELL: Object to the form.	7	Q. So did any of the other authors consult on this topic
8	THE WITNESS: I didn't understand the	8	for a fee, to your knowledge?
9	question.	9	A. To my knowledge, no.
10	BY MR. HEGARTY:	10	Q. Were the other authors on this manuscript aware of your
11	Q. You stand to benefit financially to the extent that	11	relationship with the attorneys for Beasley Allen in
12	Plaintiff's Counsel use your article in this	12	this litigation?
13	litigation, correct?	13	A. Yes, they are.
14	MS. O'DELL: Object to the form.	14	Q. How were they made aware of it?
15	THE WITNESS: Can you I know but I don't	15	A. I made them aware of it.
16	understand what you really want to say.	16	Q. When did you make them aware of it?
17	BY MR. HEGARTY:	17	A. When we started this whole thing.
18	Q. You stand to benefit financially, make more money by	18	Q. What did you tell them?
19	Plaintiff's Counsel using your article in this	19	A. I tell them I'm acting as a what do you call it a
20	litigation, correct?	20	witness expert in this litigation.
21	MS. O'DELL: Object to the form.	21	Q. Did you have you told them that you've been
22	THE WITNESS: No, I'm not aware, how they	22	designated to testify as an expert witness in this
23	going to make more money by using this?	23	litigation?
24	BY MR. HEGARTY:	24 25	MS. O'DELL: Objection, asked and answered.
25	Q. Well, they will continue to use you as an expert	25	THE WITNESS: I just said shared with them
	Page 147		Page 149
1	witness in all the cases to the extent they are	1	that I was selected to be an expert witness in this
2	successful in using your article, correct?	2	topic.
3	MS. O'DELL: Object to the form.	3	BY MR. HEGARTY:
4	THE WITNESS: So they can use whatever they	4	Q. And you told them that before you started the
5	want. This is my research and my lab. These are the	5	experiments?
6	results that I stand for.	6	A. About, yeah.
7	BY MR. HEGARTY:	7	Q. You are the senior author on this paper, correct?
8	Q. Do you think they would pay you to testify in this	8	A. Correct.
9	litigation if your results were different in your	9	Q. Do you in any way supervise or do you in any way
10	article?	10	supervise any of the work of the other authors?
11	MS. O'DELL: Object to the form.	11	A. All the work that is in this manuscript is done under
12	THE WITNESS: This work, negative results or	12	my hundred percent supervision.
12 13	positive results, both are results, so they're paying	13	Q. How about generally, do you supervise any of the other
12 13 14	positive results, both are results, so they're paying for my time to consult. Whether it's positive or	13 14	Q. How about generally, do you supervise any of the other authors?
12 13 14 15	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter.	13 14 15	Q. How about generally, do you supervise any of the other authors?A. I do.
12 13 14 15	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY:	13 14 15 16	Q. How about generally, do you supervise any of the other authors?A. I do.Q. Do they report to you?
12 13 14 15 16 17	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY: Q. Well, when you said you're acting as a consultant	13 14 15 16 17	Q. How about generally, do you supervise any of the other authors?A. I do.Q. Do they report to you?A. Yes.
12 13 14 15 16 17	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY: Q. Well, when you said you're acting as a consultant regarding this topic, what is this topic? Is it	13 14 15 16 17 18	Q. How about generally, do you supervise any of the other authors?A. I do.Q. Do they report to you?A. Yes.Q. Which ones report directly to you?
12 13 14 15 16 17 18	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY: Q. Well, when you said you're acting as a consultant regarding this topic, what is this topic? Is it inflammation and cancer? Is it antioxidants? Is it	13 14 15 16 17 18	 Q. How about generally, do you supervise any of the other authors? A. I do. Q. Do they report to you? A. Yes. Q. Which ones report directly to you? A. So Nicole King, Ira, Amy, and that's about all the
12 13 14 15 16 17 18 19	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY: Q. Well, when you said you're acting as a consultant regarding this topic, what is this topic? Is it inflammation and cancer? Is it antioxidants? Is it talc? How is the reader supposed to know?	13 14 15 16 17 18 19 20	 Q. How about generally, do you supervise any of the other authors? A. I do. Q. Do they report to you? A. Yes. Q. Which ones report directly to you? A. So Nicole King, Ira, Amy, and that's about all the authors here.
12 13 14 15 16 17 18 19 20 21	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY: Q. Well, when you said you're acting as a consultant regarding this topic, what is this topic? Is it inflammation and cancer? Is it antioxidants? Is it talc? How is the reader supposed to know? MS. O'DELL: Object to the form.	13 14 15 16 17 18 19 20 21	 Q. How about generally, do you supervise any of the other authors? A. I do. Q. Do they report to you? A. Yes. Q. Which ones report directly to you? A. So Nicole King, Ira, Amy, and that's about all the authors here. Q. Are you a resource for grant funding for things that
12 13 14 15 16 17 18 19 20 21 22	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY: Q. Well, when you said you're acting as a consultant regarding this topic, what is this topic? Is it inflammation and cancer? Is it antioxidants? Is it talc? How is the reader supposed to know? MS. O'DELL: Object to the form. THE WITNESS: If you read the reader will	13 14 15 16 17 18 19 20 21 22	 Q. How about generally, do you supervise any of the other authors? A. I do. Q. Do they report to you? A. Yes. Q. Which ones report directly to you? A. So Nicole King, Ira, Amy, and that's about all the authors here. Q. Are you a resource for grant funding for things that they work on?
12 13 14 15 16 17 18 19 20 21 22 23	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY: Q. Well, when you said you're acting as a consultant regarding this topic, what is this topic? Is it inflammation and cancer? Is it antioxidants? Is it talc? How is the reader supposed to know? MS. O'DELL: Object to the form. THE WITNESS: If you read the reader will read the title, which says Molecular Basis Supporting	13 14 15 16 17 18 19 20 21 22 23	 Q. How about generally, do you supervise any of the other authors? A. I do. Q. Do they report to you? A. Yes. Q. Which ones report directly to you? A. So Nicole King, Ira, Amy, and that's about all the authors here. Q. Are you a resource for grant funding for things that they work on? MS. O'DELL: Object to the form.
12 13 14 15 16 17 18 19 20 21 22	positive results, both are results, so they're paying for my time to consult. Whether it's positive or negative to them doesn't matter. BY MR. HEGARTY: Q. Well, when you said you're acting as a consultant regarding this topic, what is this topic? Is it inflammation and cancer? Is it antioxidants? Is it talc? How is the reader supposed to know? MS. O'DELL: Object to the form. THE WITNESS: If you read the reader will	13 14 15 16 17 18 19 20 21 22	 Q. How about generally, do you supervise any of the other authors? A. I do. Q. Do they report to you? A. Yes. Q. Which ones report directly to you? A. So Nicole King, Ira, Amy, and that's about all the authors here. Q. Are you a resource for grant funding for things that they work on?

	Page 150		Page 152
1	BY MR. HEGARTY:	1	January 16, 2019. Do you see where it lists SAGE
2	Q. Yes. Do they work on studies that you have received	2	Publications, underneath that Reproductive Sciences?
3	funding for?	3	A. This here?
4	A. No.	4	Q. Yes, at the top. SAGE and Reproductive Sciences.
5	Q. Do they otherwise work for you let me strike that.	5	A. Yes.
6	Do they work for you have they done work for you	6	Q. Reproductive Sciences is a journal that has accepted
7	outside of the work on this manuscript?	7	your article for publication, correct?
8	A. Some of them	8	A. Yes.
9	MS. O'DELL: Object to form.	9	Q. This exhibit identifies the editorial policies, peer
10	THE WITNESS: Some of them did.	10	review policies, and other policies of this
11	BY MR. HEGARTY:	11	publication. Are you familiar with all of these
12	Q. Do some of them still work for you?	12	policies?
13	A. Yes.	13	MS. O'DELL: Object to the form.
14	Q. Which of the authors still work for you?	14	THE WITNESS: Some.
15	MS. O'DELL: Object to the form.	15	BY MR. HEGARTY:
16	THE WITNESS: Work for me or work with me?	16	Q. Would you turn over to Page 5, sorry, Page 3 of 10.
17 18	BY MR. HEGARTY:	17 18	Under the section Funding, it states that to comply with the guidance for research funders, authors, and
	Q. Work for you. A. Work for me?	19	
19 20	A. Work for me? MS. O'DELL: Object to the form.	20	publishers issued by the Research Information Network, RS additionally requires all authors to acknowledge
21	THE WITNESS: So what's work for me means?	21	their funding in a consistent fashion under a separate
22	I'm their supervisor?	22	heading. Do you see that?
23	BY MR. HEGARTY:	23	A. Yes.
24	O. Yes.	24	Q. Where in your acknowledgment do you acknowledge the
25	A. I'm paying their salary?	25	source of your funding?
	1 7 8 7		
	Page 151		Page 153
1	Q. You're their supervisor. Are you their supervisor?	1	A. Okay, so this is this only applies to agencies that
2	A. Yes, I'm supervisor of Rong Fan, she is my research	2	require this. So, for example, I got NIH grant, I got
3	technician or assistant. I am the Fellow Director for	3	funding from NIH, I have to disclose funding from NIH.
4	the fellowship of Amy Harper. And let's see who's	4	If there is no funding, if it's internal funding, you
5	here, Ira's no longer with us, she went to medical	5	don't have to do that.
6	school in New York.	6	Q. Where does that standard where is that standard in
7	Q. Do you prepare evaluations for have you prepared	7	this document?
8	evaluations for any of the authors on this paper?	8	A. This is I have published in this journal for the
9	A. Previously?	9	last 20 years. This is the protocol that we use.
	Q. Previously.	10	Q. Can you cite for me any anything that came from SAGE
10			
11	A. Nicole Fletcher.	11	Publications saying that that's an appropriate reading
11 12	Q. Any others?	12	Publications saying that that's an appropriate reading of the funding requirements?
11 12 13	Q. Any others?A. Yearly evaluation because she was a post doc in my lab,	12 13	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form.
11 12 13 14	Q. Any others?A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong.	12 13 14	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published
11 12 13 14 15	Q. Any others?A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong.Q. Reproductive Sciences is Reproductive Sciences is	12 13 14 15	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that
11 12 13 14 15	 Q. Any others? A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong. Q. Reproductive Sciences is Reproductive Sciences is published by SAGE Publications, correct? 	12 13 14 15 16	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that if the agency, the funding agency requests that you
11 12 13 14 15 16	 Q. Any others? A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong. Q. Reproductive Sciences is Reproductive Sciences is published by SAGE Publications, correct? A. I don't know, they keep, they switch different 	12 13 14 15 16 17	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that if the agency, the funding agency requests that you should add their name to the funding part of it, then
11 12 13 14 15 16 17	 Q. Any others? A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong. Q. Reproductive Sciences is Reproductive Sciences is published by SAGE Publications, correct? A. I don't know, they keep, they switch different publishers. 	12 13 14 15 16 17	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that if the agency, the funding agency requests that you should add their name to the funding part of it, then you should do that. If it's no funding departmental
11 12 13 14 15 16 17 18	 Q. Any others? A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong. Q. Reproductive Sciences is Reproductive Sciences is published by SAGE Publications, correct? A. I don't know, they keep, they switch different publishers. SAED DEPOSITION EXHIBIT NUMBER 12, 	12 13 14 15 16 17 18	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that if the agency, the funding agency requests that you should add their name to the funding part of it, then you should do that. If it's no funding departmental is not considered funding, that's a burden actually,
11 12 13 14 15 16 17 18 19	 Q. Any others? A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong. Q. Reproductive Sciences is Reproductive Sciences is published by SAGE Publications, correct? A. I don't know, they keep, they switch different publishers. SAED DEPOSITION EXHIBIT NUMBER 12, SAGE PUBLISHING DOCUMENT, 	12 13 14 15 16 17 18 19 20	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that if the agency, the funding agency requests that you should add their name to the funding part of it, then you should do that. If it's no funding departmental is not considered funding, that's a burden actually, it's not funding.
11 12 13 14 15 16 17 18 19 20 21	 Q. Any others? A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong. Q. Reproductive Sciences is Reproductive Sciences is published by SAGE Publications, correct? A. I don't know, they keep, they switch different publishers. SAED DEPOSITION EXHIBIT NUMBER 12, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER 	12 13 14 15 16 17 18 19 20 21	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that if the agency, the funding agency requests that you should add their name to the funding part of it, then you should do that. If it's no funding departmental is not considered funding, that's a burden actually, it's not funding. BY MR. HEGARTY:
11 12 13 14 15 16 17 18 19 20 21 22	 Q. Any others? A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong. Q. Reproductive Sciences is Reproductive Sciences is published by SAGE Publications, correct? A. I don't know, they keep, they switch different publishers. SAED DEPOSITION EXHIBIT NUMBER 12, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION 	12 13 14 15 16 17 18 19 20 21	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that if the agency, the funding agency requests that you should add their name to the funding part of it, then you should do that. If it's no funding departmental is not considered funding, that's a burden actually, it's not funding. BY MR. HEGARTY: Q. If you look under the section Declaration of
11 12 13 14 15 16 17 18 19 20 21	 Q. Any others? A. Yearly evaluation because she was a post doc in my lab, and this year I will prepare one for Rong. Q. Reproductive Sciences is Reproductive Sciences is published by SAGE Publications, correct? A. I don't know, they keep, they switch different publishers. SAED DEPOSITION EXHIBIT NUMBER 12, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER 	12 13 14 15 16 17 18 19 20 21	Publications saying that that's an appropriate reading of the funding requirements? MS. O'DELL: Object to the form. THE WITNESS: I already told you we published with SRI for several years, and my understanding that if the agency, the funding agency requests that you should add their name to the funding part of it, then you should do that. If it's no funding departmental is not considered funding, that's a burden actually, it's not funding. BY MR. HEGARTY:

	Page 154		Page 156
1	represent an appearance of a conflict of interest need	1	A. If I did, yes.
2	to be additionally disclosed in the covering letter	2	Q. If you sent a cover letter, do you recall if you
3	accompanying your article to assist the editor in	3	provided information about the conflict of interest you
4	evaluating whether sufficient disclosure has been made	4	disclosed in your paper or manuscript?
5	within the Declaration of Conflicting Interests	5	MS. O'DELL: Object to the form.
6	provided in the article. Do you see where I'm reading?	6	THE WITNESS: Yeah, if I provided the cover
7	A. Yes.	7	letter, will there be a conflict of interest in the
8	Q. Did you provide such a cover letter to the editor of	8	cover letter?
9	Reproductive Sciences identifying your consulting	9	BY MR. HEGARTY:
10	relationship with Beasley Allen?	10	Q. Yes. Do you recall if you described the conflict of
11	A. Okay, so when you go to the website Reproductive	11	interest in your cover letter as required under the
12	Sciences and you try to upload your manuscript to be	12	SAGE Publishing guidelines, Exhibit Number 12?
13	considered for review on publication, there are forms	13	MS. O'DELL: Objection to form.
14	that pages that you go through, and each page you	14	THE WITNESS: Yes, so in our practice I have
15	have to answer the question before it allows you to	15	been publishing with this particular journal and other
16	proceed. So one of the pages was conflict of interest,	16	journals, I never seen a cover letter saying that we
17	and they, at that level they just want to know if you	17	have a conflict of interest. It's not a practice of
18	have a conflict of interest, you say "yes" or "no."	18	talking to the editor and tell them that this is
19	And then later on in the manuscript you identify the	19	what
20	conflict of interest if there is any.	20	BY MR. HEGARTY:
21	Q. When you were asked if you had a conflict of interest	21	Q. In any of your prior publications have you ever
22	how did you respond?	22	disclosed a conflict of interest?
23	A. Yes.	23	A. Yes.
24	Q. Then you went to the next page that that would lead you	24	Q. And do you recall an example of when you disclosed a
25	to, and that's where you prepared	25	conflict of interest?
	D 155		D 157
1	Page 155		Page 157
1	A. Your manuscript.	1	A. When?
2	Q the Acknowledgment Section, correct?	2	Q. Yes. Do you recall an example of when you disclosed a conflict of interest?
3	A. No.	4	
4 5	Q. Sorry, the Conflict of Interest Section.A. No, no. Okay, so you write this is part of the		A. Every manuscript you submit you have to disclose a
		[andiet efintenet whaten its was anne was base
6		5	conflict of interest, whether it's yes or no, you have
7	format of the manuscript, the acknowledgment, the	6	to.
7	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it	6 7	to. Q. Well, let me ask it a different way. Have you ever
8	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all	6 7 8	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one
8 9	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in	6 7 8 9	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours?
8 9 10	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them.	6 7 8 9 10	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult
8 9 10 11	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said	6 7 8 9 10 11	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors
8 9 10 11 12	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it	6 7 8 9 10 11 12	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my
8 9 10 11 12 13	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another	6 7 8 9 10 11 12	 to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose.
8 9 10 11 12 13	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your	6 7 8 9 10 11 12 13	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13,
8 9 10 11 12 13 14	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then	6 7 8 9 10 11 12 13 14	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT,
8 9 10 11 12 13 14 15	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you	6 7 8 9 10 11 12 13 14 15	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER
8 9 10 11 12 13 14 15 16	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you are not allowed to proceed.	6 7 8 9 10 11 12 13 14 15 16	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION
8 9 10 11 12 13 14 15 16 17	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you are not allowed to proceed. Q. Exhibit Number 12 also says in the paragraph that I	6 7 8 9 10 11 12 13 14 15 16 17	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:
8 9 10 11 12 13 14 15 16 17 18	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you are not allowed to proceed. Q. Exhibit Number 12 also says in the paragraph that I read to you that in addition to what you just	6 7 8 9 10 11 12 13 14 15 16 17 18	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. We'll mark as Exhibit 13 another printout from the SAGE
8 9 10 11 12 13 14 15 16 17 18 19 20	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you are not allowed to proceed. Q. Exhibit Number 12 also says in the paragraph that I read to you that in addition to what you just described, that you need to include such a disclosure	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. We'll mark as Exhibit 13 another printout from the SAGE Publications website on the ethics and responsibility
8 9 10 11 12 13 14 15 16 17 18 19 20 21	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you are not allowed to proceed. Q. Exhibit Number 12 also says in the paragraph that I read to you that in addition to what you just described, that you need to include such a disclosure in the cover letter accompanying your article. First	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. We'll mark as Exhibit 13 another printout from the SAGE Publications website on the ethics and responsibility of authors. Would you look at Exhibit 13, Doctor.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you are not allowed to proceed. Q. Exhibit Number 12 also says in the paragraph that I read to you that in addition to what you just described, that you need to include such a disclosure in the cover letter accompanying your article. First of all, did you send a cover letter with your article?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. We'll mark as Exhibit 13 another printout from the SAGE Publications website on the ethics and responsibility of authors. Would you look at Exhibit 13, Doctor. A. Yes.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you are not allowed to proceed. Q. Exhibit Number 12 also says in the paragraph that I read to you that in addition to what you just described, that you need to include such a disclosure in the cover letter accompanying your article. First of all, did you send a cover letter with your article? A. I can't remember if it was required.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. We'll mark as Exhibit 13 another printout from the SAGE Publications website on the ethics and responsibility of authors. Would you look at Exhibit 13, Doctor. A. Yes. Q. Under the section Authors, it says authors should
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	format of the manuscript, the acknowledgment, the conflict of interest, that's the setup. Like how it says abstract, key words, introduction, methods, all that, this is part of the format, so this has to be in the manuscript, we upload to them. Q. What did you type in on that online form when you said yes to having a conflict of interest and then it directed you to another A. There is no other form, they direct you to upload your manuscript. They accepted your yes answer, and then they allow you to proceed. If you don't answer, you are not allowed to proceed. Q. Exhibit Number 12 also says in the paragraph that I read to you that in addition to what you just described, that you need to include such a disclosure in the cover letter accompanying your article. First of all, did you send a cover letter with your article?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to. Q. Well, let me ask it a different way. Have you ever included a conflict of interest statement like the one in your manuscript in any prior publication of yours? A. Very rare, because I never consult I don't consult usually in this caliber, but colleagues, co-authors have done that, and there are co-authors in my publications. Everybody has to disclose. SAED DEPOSITION EXHIBIT NUMBER 13, SAGE PUBLISHING DOCUMENT, WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. We'll mark as Exhibit 13 another printout from the SAGE Publications website on the ethics and responsibility of authors. Would you look at Exhibit 13, Doctor. A. Yes.

	Page 158		Page 160
1	interest is clearly stated on submission of their	1	The first paragraph of the letter makes
2	paper. (This would include funding assistance). Do	2	reference to comments of the reviewers being included
3	you see that?	3	at the bottom of this letter, and we'll get to those
4	A. Where do you where is this	4	comments, but you did receive comments back from
5	Q. It's the bullet point, second to last bullet point at	5	reviewers of this article, correct?
6	the very bottom of the page.	6	THE WITNESS: This is the only thing I
7	A. Yes.	7	received.
8	Q. So this is saying that any an author should ensure	8	BY MR. HEGARTY:
9	that any real or apparent conflicting or competing	9	Q. Did you eventually receive comments back from reviewers
10	interest is clearly stated on submission of their	10	of the article?
11	paper. (This would include funding assistance). Do	11	A. This is the only letter I received.
12	you see where I'm reading?	12	Q. In addition to the letter, you did receive comments
13	A. Yes.	13	from authors of the I'm sorry from reviewers of
14	Q. And is it your contention that you did that in this	14	the manuscript, correct?
15	manuscript?	15	MS. O'DELL: Objection, asked and answered.
16	A. I did.	16	THE WITNESS: Is this the whole
17	Q. You did not disclose in this manuscript that you	17	BY MR. HEGARTY:
18	received funding for this paper by attorneys in	18	Q. Let me mark as Exhibit 14
19	litigation, did you?	19	A. Is this the whole letter?
20	A. I did, yes, I said consulting for a fee.	20	MS. O'DELL: I think it's two pages.
21	Q. Where do you make reference to consulting for a fee in	21	THE WITNESS: It's two pages? This is the
22	litigation?	22	whole e-mail?
23	A. That's my	23	
24	MS. O'DELL: Objection to form.	24	
25	THE WITNESS: That's my understanding.	25	
	Page 159		Page 161
1	BY MR. HEGARTY:	1	SAED DEPOSITION EXHIBIT NUMBER 14,
2	Q. You chose to use the words you set out in the Conflict	2	COPY OF LETTER FROM REPRODUCTIVE SCIENCES,
3	of Interest Section, correct?	3	WAS MARKED BY THE REPORTER
4	A. Yes.	4	FOR IDENTIFICATION
5	Q. You agree that your relationship as a consultant does	5	BY MR. HEGARTY:
6	present a conflict of interest?	6	Q. I'm going to mark as Exhibit 14 in addition to what we
7	MS. O'DELL: Object to the form.	7	had received in connection with that manuscript, but
8	THE WITNESS: My relationship?	8	this is the letter with the reviewer comments included.
9	BY MR. HEGARTY:	9	A. Yeah, this is all I received.
10	Q. Yes, as a consultant does present a conflict of	10	Q. Is Exhibit Number 14 a copy of the letter with the
11	interest, which is why you included a Conflict of	11	reviewer comments at the end?
12	Interest Statement, correct?	12	A. Okay, this is all I received.
13	MS. O'DELL: Object to the form.	13	Q. When you say this, you're talking about
	THE WITNESS: We keep going back the same	14	A. The letter.
14	circles. What's the question?	15	Q number 14?
14 15	cheles. What's the question:		A. Yeah, the e-mail.
	BY MR. HEGARTY:	16	
15	1	16 17	Q. The next paragraph in that e-mail, the second paragraph
15 16	BY MR. HEGARTY:		Q. The next paragraph in that e-mail, the second paragraph says that the reviewers have recommended publication
15 16 17	BY MR. HEGARTY: Q. You agree that your relationship with attorneys for	17	
15 16 17 18	BY MR. HEGARTY: Q. You agree that your relationship with attorneys for Beasley Allen presents a conflict of interest that you	17 18	says that the reviewers have recommended publication
15 16 17 18 19	BY MR. HEGARTY: Q. You agree that your relationship with attorneys for Beasley Allen presents a conflict of interest that you needed to disclose?	17 18 19	says that the reviewers have recommended publication but also suggest some minor revisions to your
15 16 17 18 19 20	BY MR. HEGARTY: Q. You agree that your relationship with attorneys for Beasley Allen presents a conflict of interest that you needed to disclose? A. I disclosed that, yes.	17 18 19 20	says that the reviewers have recommended publication but also suggest some minor revisions to your manuscript. Therefore, I invite you to respond to the
15 16 17 18 19 20 21	BY MR. HEGARTY: Q. You agree that your relationship with attorneys for Beasley Allen presents a conflict of interest that you needed to disclose? A. I disclosed that, yes. Q. If you would look at the letter on the very back page	17 18 19 20 21	says that the reviewers have recommended publication but also suggest some minor revisions to your manuscript. Therefore, I invite you to respond to the viewer's comments and revise your manuscript. Do you
15 16 17 18 19 20 21	BY MR. HEGARTY: Q. You agree that your relationship with attorneys for Beasley Allen presents a conflict of interest that you needed to disclose? A. I disclosed that, yes. Q. If you would look at the letter on the very back page again of Exhibit Number 7.	17 18 19 20 21 22	says that the reviewers have recommended publication but also suggest some minor revisions to your manuscript. Therefore, I invite you to respond to the viewer's comments and revise your manuscript. Do you see where I'm reading?

	Gliassali Sc		
	Page 162		Page 164
1	Q. Did you respond to reviewer's comments via e-mail?	1	A. I don't know, I don't know because they you write
2	A. No, you can't do that.	2	them, you write them in a space online, and they
3	Q. How did you respond to viewer's comments?	3	incorporate them into the manuscript if they agree with
4	A. So you have to log in to Manuscript Central, you have	4	it, maybe disagree. So they send it to the reviewer,
5	to go to Revised Manuscript, and you have to include	5	and the reviewer will decide, okay, I like this
6	highlighted changes in the revised manuscript, and then	6	explanation, add it to the manuscript, or this
7	you have to submit that to the reviewer one more time.	7	explanation is already in the manuscript, which I
8	Q. And did you do that in this case?	8	recall I said to the reviewer, to the editor.
9	A. Yes.	9	Q. You recall saying to the editor that this as to this
10	Q. Do you still have a copy of the highlighted copy of the	10	comment, it was already in the manuscript?
11	revisions that you submitted to the reviewers?	11	A. Yes, I said this has been addressed in this section of
12	A. Yes, and, also, it's in the website for the journal.	12	manuscript; however, this is what we believe the
13	Q. If you look down at Paragraph 6 of Exhibit 14, it reads	13	molecular mechanism is all about. And he sent it to
14	when submitting your revised manuscript, you will be	14	the reviewer, and the reviewer will say I agree, go
15	able to respond to the comments made by the reviewers	15	ahead, accept, or I disagree, I think they should edit,
16	in the space provided. So is there actually a space	16	or we don't like the whole comment.
17	provided where you can actually communicate with the	17	Q. Do you still have a copy of your response to this
18	reviewers?	18	reviewer's comment?
19	A. (Witness shakes head from side to side.) You can't	19	A. Again, this is done on the website.
20	communicate with the reviewers.	20	Q. Is that comment still on the website, to your
21	Q. Is there any way to respond?	21	knowledge?
22	A. I don't know who they are, yes, you have to write your	22	A. I don't know, but I can find it.
23	response but to the editor, not to the reviewer. I	23	Q. Well, what is the mechanism by which the ovary, and not
24	don't know who is the reviewer.	24	the vagina, the cervix, or the endometrium are
25	Q. So did you write a response to the comments to the	25	susceptible to talc effects, in your opinion?
	Page 163		Page 165
1		1	
1 2	editor?	1 2	A. So, in my opinion, that talcum powder, talcum particles
2	editor? A. Correct.	2	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use.
2	editor? A. Correct. Q. And do you still have a copy of that response?	2	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the
2 3 4	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a	2 3 4	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this
2 3 4 5	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes.	2 3 4 5	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked
2 3 4 5 6	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes. Q. With regard to the reviewer comments, if you look at	2 3 4	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked strongly and actually the cause of ovarian cancer. Why
2 3 4 5 6 7	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes. Q. With regard to the reviewer comments, if you look at the second page of Exhibit 14, the first sentence under	2 3 4 5 6 7	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked strongly and actually the cause of ovarian cancer. Why other tissues don't get it, there are more than one
2 3 4 5 6 7 8	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes. Q. With regard to the reviewer comments, if you look at the second page of Exhibit 14, the first sentence under Comments and Suggestions, it reads what is the	2 3 4 5 6 7 8	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked strongly and actually the cause of ovarian cancer. Why other tissues don't get it, there are more than one explanation to that if you'd like to hear it.
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2 3 4 5 6 7 8 9	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes. Q. With regard to the reviewer comments, if you look at the second page of Exhibit 14, the first sentence under Comments and Suggestions, it reads what is the mechanism by which the ovary and not the vagina, the cervix, or the endometrium are susceptible to talc	2 3 4 5 6 7 8 9	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked strongly and actually the cause of ovarian cancer. Why other tissues don't get it, there are more than one explanation to that if you'd like to hear it. Q. Well, yeah, because I want to know what you believe to be the difference in the ovary versus the other organs.
2 3 4 5 6 7 8 9 10	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes. Q. With regard to the reviewer comments, if you look at the second page of Exhibit 14, the first sentence under Comments and Suggestions, it reads what is the mechanism by which the ovary and not the vagina, the cervix, or the endometrium are susceptible to talc effects? Do you see where I'm reading?	2 3 4 5 6 7 8 9 10	 A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked strongly and actually the cause of ovarian cancer. Why other tissues don't get it, there are more than one explanation to that if you'd like to hear it. Q. Well, yeah, because I want to know what you believe to be the difference in the ovary versus the other organs. A. Yes. First, cancer is a tissue specific like cervical
2 3 4 5 6 7 8 9	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes. Q. With regard to the reviewer comments, if you look at the second page of Exhibit 14, the first sentence under Comments and Suggestions, it reads what is the mechanism by which the ovary and not the vagina, the cervix, or the endometrium are susceptible to tale effects? Do you see where I'm reading? A. Yes, sorry.	2 3 4 5 6 7 8 9	A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked strongly and actually the cause of ovarian cancer. Why other tissues don't get it, there are more than one explanation to that if you'd like to hear it. Q. Well, yeah, because I want to know what you believe to be the difference in the ovary versus the other organs.
2 3 4 5 6 7 8 9 10 11 12 13	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes. Q. With regard to the reviewer comments, if you look at the second page of Exhibit 14, the first sentence under Comments and Suggestions, it reads what is the mechanism by which the ovary and not the vagina, the cervix, or the endometrium are susceptible to talc effects? Do you see where I'm reading? A. Yes, sorry. Q. Did you include any explanation in your revised	2 3 4 5 6 7 8 9 10 11 12	 A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked strongly and actually the cause of ovarian cancer. Why other tissues don't get it, there are more than one explanation to that if you'd like to hear it. Q. Well, yeah, because I want to know what you believe to be the difference in the ovary versus the other organs. A. Yes. First, cancer is a tissue specific like cervical cancer, HPV so Second is the area in the uterus is full of secretion, and there is a dilution factor that
2 3 4 5 6 7 8 9 10 11	editor? A. Correct. Q. And do you still have a copy of that response? A. It's uploaded in the manuscript center, and I do have a copy, yes. Q. With regard to the reviewer comments, if you look at the second page of Exhibit 14, the first sentence under Comments and Suggestions, it reads what is the mechanism by which the ovary and not the vagina, the cervix, or the endometrium are susceptible to tale effects? Do you see where I'm reading? A. Yes, sorry. Q. Did you include any explanation in your revised manuscript to explain the mechanism by which the ovary	2 3 4 5 6 7 8 9 10 11	 A. So, in my opinion, that talcum powder, talcum particles go transfer, it's an open access for genital use. When they use it for genital use, it goes into the ovaries and incorporate into the tissues, and this continuously induce chronic inflammation that is linked strongly and actually the cause of ovarian cancer. Why other tissues don't get it, there are more than one explanation to that if you'd like to hear it. Q. Well, yeah, because I want to know what you believe to be the difference in the ovary versus the other organs. A. Yes. First, cancer is a tissue specific like cervical cancer, HPV so Second is the area in the uterus is full of secretion, and there is a dilution factor that kick everything out, whereas if it make it if the
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	Page 166		Page 168
1	A. It's the wash, it's the dilution factor, it's the	1	the epithelial ovarian cells to tale?
2	excretion, it's always excretions, but ovaries are not.	2	A. Chronic inflammation.
3	Q. And is that opinion somewhere in Exhibit Number 7? You	3	Q. And how is chronic inflammation or strike that
4	said it already is in the section. In what section is	4	how are epithelial ovarian cells, how do they have
5	that concept?	5	increased sensitivity to chronic inflammation?
6	A. So the peristaltic travel of the talcum particles into	6	A. So this is what actually made them in the first place.
7	the ovary has been actually discussed somewhere.	7	It's the fact that they are exposed to continuously
8	Q. That's over at the bottom of Page 8. Is that the	8	over time with talcum particles, and that created a
9	portion of the paper that you say already addresses	9	chronic inflammation that actually transformed those
10	this comment?	10	cells and caused the cells to go, the epithelial
11	A. Yes, part of it.	11	ovarian cells to go cancerous with time.
12	Q. Where else in the manuscript do you address this	12	Q. So, in your opinion, for purposes of your biologic
13	comment by one of the reviewers?	13	mechanism for talc causing ovarian cancer, talc must
14	A. I think this is sufficient, in my opinion, to show	14	reach the ovary, correct?
15	evidence that there is a transfer of the particles from	15	MS. O'DELL: Object to the form.
16	the vagina and uterus area and fallopian tube into the	16	THE WITNESS: Not necessarily.
17	ovaries, that's substantial.	17	BY MR. HEGARTY:
18	Q. The next comment reads what do the authors believe is	18	Q. Well, the processes you just described all involve talc
19	the determining factor for the increased sensitivity of	19	reaching the ovary, correct?
20	the epithelial ovarian cells to talc? You see where	20	A. No. I said any environment that create chronic
21	I'm reading?	21	inflammation to the ovaries, epithelial ovarian cells,
22	A. Where is that? Where is it?	22	normal ones, can or are known to develop this signature
23	Q. In the second comment that begins	23	of pro-oxidant state. We have published that in
24	A. Oh, the determining factor.	24 25	several manuscripts.
25	Q. What is the second comment is what do the authors	25	Q. So, in your opinion, where must talc go to cause the
	Page 167		Page 169
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1	believe is the determining factor for the increased	1	inflammation that you say can cause ovarian cancer?
1 2	believe is the determining factor for the increased sensitivity of the epithelial ovarian cells to talc?	1 2	inflammation that you say can cause ovarian cancer? MS. O'DELL: Objection to form.
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2	sensitivity of the epithelial ovarian cells to talc?	2	MS. O'DELL: Objection to form.
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	Page 170		Page 172
1	THE WITNESS: Yeah, I no, I understood	1	cancer risk?
2	your question, but I disagree, that's not what I said.	2	Q. Question is very specific. Can you cite for me any
3	BY MR. HEGARTY:	3	published literature reporting finding chronic
4	Q. What did you say?	4	inflammation in the presence of talc in the fallopian
5	A. No. So what I said is the use of talcum powder allows	5	tubes or ovaries or the endometrium in women using
6	talcum particles, according to our research, we added	6	talc?
7	the particles to the cells, the cells showed	7	MS. O'DELL: Objection to the form.
8	inflammatory response. So we expect if the talcum	8	Epidemiological studies is what the doctor asked you to
9	powder enter the genital area, go to and I said I,	9	clarify. Is that what you meant?
10	you know, organized them for you, so the most effect	10	THE WITNESS: Do you
11	will be if they are in the ovary, and we already have	11	BY MR. HEGARTY:
12	evidence, and not just us, every all the world know	12	Q. I don't think I'm not talking about epidemiologic
13	now, that acute inflammation does not cause cancer, is	13	studies. I'm talking about can you cite for me any
14	not linked to cancer, it may initiate cancer, but	14	studies that report finding inflamed tissue in the
15	chronic inflammation is the real trigger for cancer in	15	presence of talc in women using talc on the perineum?
16	general and ovarian cancer. And we have shown that all	16	MS. O'DELL: Object to the form.
17	these redox balance is altered in ovarian cancer cells.	17	THE WITNESS: So your question is any
18	So the first impact, the highest impact will be if the	18	manuscript, any papers, any papers that cite or discuss
19	particle is in the ovary, and this has been reported by	19	the presence of inflamed tissues in response to woman
20	some people, and the second or less degree, less impact	20	using talcum powder.
21	or longer time, maybe it's the same impact but it's a	21	BY MR. HEGARTY:
22	longer time probably, all this need to be further	22	Q. Correct.
23	studied, is in the fallopian tube, and then who knows	23	A. And my answer to you is I don't know any references.
24	what it does to uterus and cervical area.	24	What I do know, that there are lots of epidemiological
25	Q. Well, I thought you said when you responded to the	25	studies that link woman who uses talcum powder are at
	D 181		
	Page 171		Page 173
1	Page 171 question, the comment that said the mechanism which the	1	Page 173 increased risk of developing ovarian cancer. That is
1 2		1 2	
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	Page 174		Page 176
1	Exhibit 15?	1	BY MR. HEGARTY:
2	A. This is an e-mail from the editor.	2	Q. I'm going to mark as Exhibit Number 16 a copy of the
3	Q. Yes.	3	expert report for you we were provided in this case.
4	A. Yes, saying that they accepted the manuscript.	4	Is Exhibit Number 16 your expert report in this case?
5	Q. This is dated January 14, 2019, correct?	5	A. Yes.
6	A. Okay.	6	Q. There are large portions of the manuscript that are
7	Q. Is that right?	7	identical to your report, correct?
8	A. Yes, it says so.	8	A. I don't know about large, but based on it, yes.
9	Q. Then again it strike that. Below it says Reviewer:	9	Q. Which was prepared first, the manuscript or the report?
10	1, correct?	10	A. This is November, and the manuscript was September, so
11	A. Yes.	11	the manuscript was first.
12	Q. Comments to the author. Well done.	12	Q. Did you conduct the experiments that are described in
13	A. Yes.	13	the manuscript for Beasley Allen?
14	Q. Was there only one reviewer for purposes of your paper?	14	A. Say that again, please.
15	A. Yes, Reviewer: 1.	15	Q. Did you conduct the experiments that are in the
16	Q. In what I marked as Exhibit Number 15 is Reviewer 1's	16	manuscript for Beasley Allen?
17	comment after you made changes to your paper?	17	MS. O'DELL: Object to the form.
18	A. Correct.	18	THE WITNESS: The experiment I did, I did it
19	Q. So the peer review for this article had one reviewer,	19	in my lab for me.
20	correct?	20	BY MR. HEGARTY:
21	A. No, I don't know.	21	Q. Was the work that you did on in conducting the
22	Q. Did you get comments back from any other reviewer?	22	experiments and doing the manuscript independent of
23	A. I review comments, I review manuscripts for many	23	Beasley Allen or any counsel for Plaintiffs?
24	journals. If you have no comments or if you have good	24	MS. O'DELL: Object to the form.
25	comments, I don't need to show them.	25	THE WITNESS: The work that I did in the lab,
	Page 175		Page 177
1	Q. Do you know how many reviewers	1	no one has any interference in how it's designed, what
2	A. No knowledge.	2	the method should be used, how to analyze the data, how
3	Q. Let me finish do you know how many reviewers	3	to write the manuscript, all that is all mine.
4	Reproductive Sciences had for your manuscript?	4	UNIDENTIFIED ATTORNEY: Objection,
5	A. No.	5	nonresponsive.
6	MR. HEGARTY: Let's go off the record real	6	BY MR. HEGARTY:
7	quick. I need to take just a quick break and we'll be	7	Q. Going back to my question, was the experiment you
8	right back.	8	conducted and the manuscript that you wrote independent
8 9	right back. THE VIDEOGRAPHER: Going off the record at	8 9	
	-		conducted and the manuscript that you wrote independent
9	THE VIDEOGRAPHER: Going off the record at	9	conducted and the manuscript that you wrote independent of your work with Beasley Allen in this litigation?
9 10	THE VIDEOGRAPHER: Going off the record at 2:23 p.m.	9	conducted and the manuscript that you wrote independent of your work with Beasley Allen in this litigation? MS. O'DELL: Objection to the form.
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	Page 178		Page 180
1	witness expert in tale, ovarian cancer and oxidative	1	A. Because the whole news and the whole media is all about
2	stress, and I am doing work in my lab related to the	2	Johnson & Johnson product.
3	consulting that what I'm doing with Beasley Allen.	3	Q. Did you choose Johnson's Baby Powder because that
4	BY MR. HEGARTY:	4	product is in this litigation?
5	Q. So was the work that you did in doing the tests and	5	A. Not in this litigation, but for me, because of the
6	preparing the manuscript independent of your	6	media and all these reports that I've been reading and
7	relationship with Beasley Allen?	7	the association of woman using Johnson & Johnson Baby
8	MS. O'DELL: Objection, asked and answered.	8	Powder with increased risk of ovarian cancer.
9	THE WITNESS: I still don't understand the	9	Q. Within your lab notebooks, where are the tests that you
10	independent type.	10	conducted with Fisher Scientific talcum powder?
11	BY MR. HEGARTY:	11	A. I can show it to you.
12	Q. Well, was it done	12	Q. Okay. You're looking at Exhibit Number 2, the lab
13	A. Can you reformat the question, please.	13	notebook for the experiments reflected in your
14	Q. Well, was that work separate and unrelated to your work	14	MS. O'DELL: I think it's Exhibit 3.
15	with Beasley Allen?	15	THE WITNESS: That's Fisher.
16	MS. O'DELL: Object to the form.	16	BY MR. HEGARTY:
17	THE WITNESS: It was separate, not it is	17	Q. I'm sorry. So Exhibit Number 3, which is the lab
18	related, so I don't know about what separate means, but	18	notebook for the pilot study involved Fisher
19	it is related, yes, but in what caliber it's related,	19	A. Correct.
20	that's what I want to emphasize. They have no saying	20	Q talc?
21	in any of the work that has been done here.	21	A. Talc.
22	BY MR. HEGARTY:	22	Q. The only talc tested as reflected in Exhibit Number 2
23	Q. Would you have done this same work if you were not a	23	is Johnson & Johnson, Johnson's Baby Powder?
24	consultant for Beasley Allen?	24	A. This one here, initially we used both, and then we
25	MS. O'DELL: Object to the form.	25	stopped using Fisher and we continued using Johnson &
	Page 179		Page 181
1	THE WITNESS: I would have done the same type	1	Johnson.
2	of rigorous testing because this is my primary focus of	2	Q. Is there any reference in to testing Fisher talcum
3	my laboratory, and anything that is related to	3	powder in Exhibit Number 2?
4	inflammation, oxidative stress, and ovarian cancer, it	4	A. I can't remember.
5	is what we like to do in our lab.	5	Q. Well, the first page of your strike that.
6	BY MR. HEGARTY:	6	MS. O'DELL: Just for the record, can we note
7	Q. Your experiments involved Johnson's Baby Powder,	7	the page it's turned to in Exhibit 3, what page is
8	correct?	8	that, in the lab notebook?
9	A. Correct.	9	THE WITNESS: Okay.
10	Q. Where did you purchase the Johnson's Baby Powder that	10	MS. O'DELL: What page is it turned to?
11	you used?	11	MR. HEGARTY: It's now on Pages 38 and 39.
12	A. Walgreen across the street.	12	MS. O'DELL: Okay.
13	Q. Why did you choose to use Johnson's Baby Powder in your	13	BY MR. HEGARTY:
14	experiment?	14	Q. If you look at Page 5 of your manuscript.
15	A. Because I want to see if the use of baby powder, talcum	15	A. Methodology?
16	powder, has any biological effect on ovarian cancer	16	Q. Not of your report, your manuscript, that's Exhibit 7.
	11-	17	A. Page 5.
17	cells.		
17 18	Q. Why did you choose the Johnson's Baby Powder brand?	18	Q. Page 5.
17 18 19	Q. Why did you choose the Johnson's Baby Powder brand?A. I chose Johnson & Johnson baby powder and I chose	18 19	A. Okay.
17 18 19 20	Q. Why did you choose the Johnson's Baby Powder brand?A. I chose Johnson & Johnson baby powder and I chose Fisher.	18 19 20	A. Okay. Q. At the top you say Treatment of cells. Talcum powder
17 18 19 20 21	 Q. Why did you choose the Johnson's Baby Powder brand? A. I chose Johnson & Johnson baby powder and I chose Fisher. Q. Why did you choose the Johnson Baby Powder brand versus 	18 19 20 21	A. Okay. Q. At the top you say Treatment of cells. Talcum powder (Fisher Scientific, Catalog #T4-500, Lot#166820) or
17 18 19 20 21 22	 Q. Why did you choose the Johnson's Baby Powder brand? A. I chose Johnson & Johnson baby powder and I chose Fisher. Q. Why did you choose the Johnson Baby Powder brand versus another brand of talcum powder product? 	18 19 20 21 22	 A. Okay. Q. At the top you say Treatment of cells. Talcum powder (Fisher Scientific, Catalog #T4-500, Lot#166820) or baby powder, then referencing Johnson & Johnson, was
17 18 19 20 21 22 23	 Q. Why did you choose the Johnson's Baby Powder brand? A. I chose Johnson & Johnson baby powder and I chose Fisher. Q. Why did you choose the Johnson Baby Powder brand versus another brand of talcum powder product? A. I chose Fisher. 	18 19 20 21 22 23	A. Okay. Q. At the top you say Treatment of cells. Talcum powder (Fisher Scientific, Catalog #T4-500, Lot#166820) or baby powder, then referencing Johnson & Johnson, was dissolved in DMSO, et cetera. Do you see where I'm
17 18 19 20 21 22	 Q. Why did you choose the Johnson's Baby Powder brand? A. I chose Johnson & Johnson baby powder and I chose Fisher. Q. Why did you choose the Johnson Baby Powder brand versus another brand of talcum powder product? 	18 19 20 21 22	 A. Okay. Q. At the top you say Treatment of cells. Talcum powder (Fisher Scientific, Catalog #T4-500, Lot#166820) or baby powder, then referencing Johnson & Johnson, was

Q. Where in your manuscript do you report the results from your tests done on Fisher Scientific talcum powder?	1	Page 184 Powder?
your tests done on risher bereitine taleam powder.	2	A. Okay. So I'm now referring to this, what's this
A. We didn't. This is for the previous abstracts that we	3	O. Exhibit 2.
used which is this.	4	A. Exhibit 2 and I did
Q. So none of the data reported in your manuscript was	5	MS. O'DELL: Page
data from experiments involving Fisher Scientific	6	THE WITNESS: Here sections PCR, I did ELISA.
	7	MS. O'DELL: What page does ELISA begin on?
•	8	THE WITNESS: 53.
• '	9	MS. O'DELL: Okay.
	10	THE WITNESS: I did all labeled here what
your manuscript with Fisher Scientific talcum powder?	11	we did. SNP analysis
A. No, we only did this with Fisher, which is PCR.	12	MS. O'DELL: What page? Starts
MS. O'DELL: And what are you pointing to,	13	THE WITNESS: 102.
Doctor, just so the record	14	MS. O'DELL: Okay.
THE WITNESS: Which is the preliminary	15	THE WITNESS: I did MTT.
studies that we used to publish for our SRI abstract	16	MS. O'DELL: What page?
which was presented March of 2018. There was only one	17	THE WITNESS: 106. And statistics final. So
component, which is PCR, and some few fact and some	18	that's all done with J & J Baby Powder.
few markers. This is this was not an extensive and	19	BY MR. HEGARTY:
comprehensive study as the one described here. This is	20	Q. Does Exhibit Number 3 contain all the data of your PCR
just preliminary to show there is an effect or there is	21	tests for Fisher Scientific talcum powder?
no effect.	22	A. Sorry, one more time, please.
BY MR. HEGARTY:	23	Q. Does Exhibit Number 3 contain all of the data of your
Q. What prooxidant or anti-oxidant	24	PCR tests for Fisher Scientific talcum powder?
MS. O'DELL: It's confusing because you're	25	A. That we reported this abstract at SRI, yes.
Page 192		Dago 105
	_	Page 185
		Q. In your manuscript you report the enzyme data after 72
		hours.
		A. Enzyme?
		Q. I'm sorry, the protein data after 72 hours.A. No, I didn't.
		A. No, 1 didn't. Q. What did you report after 72 hours?
		A. The effect of treatment after 72 hours. That's totally
		different.
_		Q. Why did you choose 72 hours?
		A. It was from a previous paper, one of those two, 72
		hours, they did 48 hours, 72 hours, and I picked 72
		because there is data showing very similar, I can't
		remember the reference of it.
		Q. In your report you describe the results of your tests
	15	only up to 48 hours, correct?
	16	A. Where is it, my report
GST, MPO, nitric oxide, SOD3.	17	Q. Over on Page 14.
BY MR. HEGARTY:	18	A. Page 14.
Q. And you say you only ran	19	Q. In the section Treatment of Cells.
A. PCR.	20	A. Where does it say that? Here? Treatment of cells.
Q. And what test did you do beyond PCR with Johnson's Baby	21	Yeah, this is not accurate, 72 hours, this is a typo.
Powder?	22	Q. So you're saying that the reference to 48 hours in
A. Sorry, I just want to make sure that they're all here,	23	Exhibit Number what is that marked as, your report?
okay. So, sorry, what's the question?	24	MS. O'DELL: 16.
	talcum powder? A. In this manuscript, all the data here, as far as I remember, they're all done with Johnson & Johnson. Q. Did you run the exact same tests that you report in your manuscript with Fisher Scientific talcum powder? A. No, we only did this with Fisher, which is PCR. MS. O'DELL: And what are you pointing to, Doctor, just so the record THE WITNESS: Which is the preliminary studies that we used to publish for our SRI abstract which was presented March of 2018. There was only one component, which is PCR, and some few fact and some few markers. This is this was not an extensive and comprehensive study as the one described here. This is just preliminary to show there is an effect or there is no effect. BY MR. HEGARTY: Q. What prooxidant or anti-oxidant MS. O'DELL: It's confusing because you're Page 183 saying this, but you're referring to Exhibit 3, the study in Exhibit 3. THE WITNESS: This is Exhibit 3? MS. O'DELL: Yes. MR. FINDEIS: Which page of the exhibit? THE WITNESS: 3 is MR. FINDEIS: It's open to which page THE WITNESS: So this is Exhibit 3, Page 38 onward. BY MR. HEGARTY: Q. Which pro-oxidant and anti-oxidant enzyme did you look at involving Fisher Scientific talcum powder? A. So they are all listed here. I'll tell you in one second. Catalase. MS. O'DELL: What page? THE WITNESS: Page 47, catalase GSR, GPX, GST, MPO, nitric oxide, SOD3. BY MR. HEGARTY: Q. And you say you only ran A. PCR. Q. And what test did you do beyond PCR with Johnson's Baby Powder? A. Sorry, I just want to make sure that they're all here,	talcum powder? A. In this manuscript, all the data here, as far as I remember, they're all done with Johnson & Johnson. Q. Did you run the exact same tests that you report in your manuscript with Fisher, which is PCR. M. No, we only did this with Fisher, which is PCR. MS. O'DELL: And what are you pointing to, Doctor, just so the record THE WITNESS: Which is the preliminary studies that we used to publish for our SRI abstract which was presented March of 2018. There was only one component, which is PCR, and some few fact and some few markers. This is this was not an extensive and comprehensive study as the one described here. This is just preliminary to show there is an effect or there is no effect. BY MR. HEGARTY: Q. What prooxidant or anti-oxidant MS. O'DELL: It's confusing because you're Page 183 saying this, but you're referring to Exhibit 3, the study in Exhibit 3. THE WITNESS: This is Exhibit 3? MS. O'DELL: Yes. MR. FINDEIS: Which page of the exhibit? THE WITNESS: 3 is MR. FINDEIS: It's open to which page THE WITNESS: So this is Exhibit 3, Page 38 onward. BY MR. HEGARTY: Q. Which pro-oxidant and anti-oxidant enzyme did you look at involving Fisher Scientific talcum powder? A. So they are all listed here. I'll tell you in one second. Catalase. MS. O'DELL: What page? THE WITNESS: Page 47, catalase GSR, GPX, GST, MPO, nitric oxide, SOD3. BY MR. HEGARTY: Q. And you say you only ran A. PCR. Q. And what test did you do beyond PCR with Johnson's Baby Powder? A. Sorry, I just want to make sure that they're all here,

	Page 186		Page 188
1	Q. 16, so you're saying that the reference to 48 hours in	1	part of your manuscript to 8 through 10. Did counsel
2	Exhibit Number 16 is incorrect and it should be 72	2	for Beasley Allen provide those references to you?
3	hours?	3	A. Absolutely not.
4	A. Correct, because we did all the work with 72 hours.	4	Q. So is it your testimony that you came up with that
5	Q. Did you try other durations that are not reported in	5	you decided on your own to make reference to the
6	your report or manuscript?	6	peristaltic pump in your manuscript?
7	A. No.	7	A. This is not I decide on my own. This is like a
8	Q. At the bottom of Page 8 of your manuscript, Exhibit 7.	8	collective reading of my reading throughout the whole
9	A. Exhibit 7, that's Exhibit 8, oh, I have two, two	9	literature. It's not just so the hypothesis that we
10	manuscripts.	10	have been trying to address for the last 30 years of my
11	Q. 7 and 8 are identical.	11	lab is how what's the trigger, what's the initiator
12	A. Okay.	12	for ovarian cancer, and there are many hypotheses out
13	Q. Bottom of Page 7.	13	there, and one of the hypotheses is that something come
14	A. Page 7.	14	through the genital tract.
15 16	Q. You made reference to this before to citing to	15 16	Q. If you turn to Page 9 in your manuscript, you in the first sentence of the second paragraph, you say in this
17	something called the peristaltic pump; do you see that? A. Page 7.	17	study, we have shown beyond doubt that talc alters key
18	A. Fage 7. Q. Page 8.	18	redox and inflammatory markers, et cetera. Do you see
19	A. Oh, sorry, Page 8, I heard 7, sorry. The last	19	what I'm reading?
20	sentence.	20	A. Yes.
21	O. Yes, second to the last line.	21	Q. Have you ever used the phrase "beyond doubt" before in
22	A. Feature of uterus, yes.	22	any published article of yours?
23	Q. That reference is not in your expert report.	23	A. I believe I did.
24	A. This is my paper, okay. So let's see.	24	Q. Can you cite for me one where you use that phrase?
25	Q. Right, but my question is that the reference to the	25	A. Not now.
	Dago 107		Page 190
	Page 187		Page 189
1	peristaltic pump is nowhere in Exhibit Number 16, your	1	Q. It's true, though, that whatever you found and reported
2	expert report. Why did you not include that in your	2	in your article was under the conditions of your
3 4	expert report?	3 4	experiment, correct? MS. O'DELL: Object to the form.
5	A. Is it not included? I don't know, I trust you. MS, O'DELL: Take a look.	5	THE WITNESS: Can you
6	THE WITNESS: Let me take a look. So Number	6	BY MR. HEGARTY:
7	8 is this is the manuscript, where are the	7	Q. Everything you describe in this manuscript occurred
8	references? So do I have the references here?	l '	Q. Everything you describe in this manuscript occurred
-		8	under the conditions of your experiments, correct?
9		8 9	under the conditions of your experiments, correct? MS. O'DELL: Object to the form.
9 10	BY MR. HEGARTY:	8 9 10	MS. O'DELL: Object to the form.
	BY MR. HEGARTY: Q. I'll represent, Doctor, that it's not in there. Do you	9	MS. O'DELL: Object to the form. THE WITNESS: So occurred means okay, so
10	BY MR. HEGARTY:	9 10	MS. O'DELL: Object to the form. THE WITNESS: So occurred means okay, so my response to this, all the experiments that has been
10 11	BY MR. HEGARTY: Q. I'll represent, Doctor, that it's not in there. Do you recall when you came across a reference to this phrase the peristaltic pump?	9 10 11	MS. O'DELL: Object to the form. THE WITNESS: So occurred means okay, so
10 11 12	BY MR. HEGARTY: Q. I'll represent, Doctor, that it's not in there. Do you recall when you came across a reference to this phrase	9 10 11 12	MS. O'DELL: Object to the form. THE WITNESS: So occurred means okay, so my response to this, all the experiments that has been performed here, they were performed according to the
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10 11 12 13 14	BY MR. HEGARTY: Q. I'll represent, Doctor, that it's not in there. Do you recall when you came across a reference to this phrase the peristaltic pump? MS. O'DELL: Objection to the form. THE WITNESS: Okay, sorry.	9 10 11 12 13 14	MS. O'DELL: Object to the form. THE WITNESS: So occurred means okay, so my response to this, all the experiments that has been performed here, they were performed according to the standard protocols that we have extensively published with.
10 11 12 13 14 15	BY MR. HEGARTY: Q. I'll represent, Doctor, that it's not in there. Do you recall when you came across a reference to this phrase the peristaltic pump? MS. O'DELL: Objection to the form. THE WITNESS: Okay, sorry. BY MR. HEGARTY:	9 10 11 12 13 14 15	MS. O'DELL: Object to the form. THE WITNESS: So occurred means okay, so my response to this, all the experiments that has been performed here, they were performed according to the standard protocols that we have extensively published with. BY MR. HEGARTY:
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10 11 12 13 14 15 16	BY MR. HEGARTY: Q. I'll represent, Doctor, that it's not in there. Do you recall when you came across a reference to this phrase the peristaltic pump? MS. O'DELL: Objection to the form. THE WITNESS: Okay, sorry. BY MR. HEGARTY: Q. Yes, you do you recall when in the writing process for your manuscript you came across a reference to this thing called a peristaltic pump? MS. O'DELL: Objection to form.	9 10 11 12 13 14 15 16	MS. O'DELL: Object to the form. THE WITNESS: So occurred means okay, so my response to this, all the experiments that has been performed here, they were performed according to the standard protocols that we have extensively published with. BY MR. HEGARTY: Q. The statement that you make there is based on the results of your cell studies, correct?
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10 11 12 13 14 15 16 17 18 19 20 21	BY MR. HEGARTY: Q. I'll represent, Doctor, that it's not in there. Do you recall when you came across a reference to this phrase the peristaltic pump? MS. O'DELL: Objection to the form. THE WITNESS: Okay, sorry. BY MR. HEGARTY: Q. Yes, you do you recall when in the writing process for your manuscript you came across a reference to this thing called a peristaltic pump? MS. O'DELL: Objection to form. THE WITNESS: If I recall where I read this manuscript, this reference? BY MR. HEGARTY:	9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form. THE WITNESS: So occurred means okay, so my response to this, all the experiments that has been performed here, they were performed according to the standard protocols that we have extensively published with. BY MR. HEGARTY: Q. The statement that you make there is based on the results of your cell studies, correct? A. My cell studies, yes. Q. It's not based on any data from in vivo studies, correct? MS. O'DELL: Objection, form. THE WITNESS: There is no need.
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	Page 190		Page 192
1	MS. O'DELL: Object to the form.	1	BY MR. HEGARTY:
2	THE WITNESS: So those, again, those results,	2	Q. What published literature reports finding the same
3	the result, no, this is this is what we have shown	3	things you report in this study in an animal model?
4	in this manuscript, that's not my opinion of the whole	4	A. Not the same things, similar things.
5	situation. So this the basis of the sentence is	5	Q. I'm asking
6	came from the results, the experiments that we did that	6	A. Same exact?
7	we described here.	7	Q. I'm asking can you cite for me any published literature
8	BY MR. HEGARTY:	8	reporting the same findings that you report in this
9	Q. Those results have not been shown in any in vivo	9	article in an in vivo model?
10	situation, whether it's human or animal, correct?	10	MS. O'DELL: Object to the form.
11	MS. O'DELL: Object to the form.	11	THE WITNESS: Again, I repeat the same thing,
12	THE WITNESS: Similar outcome have been shown	12	I say I have seen work that has been done in vivo using
13	in before, yes.	13	animals, different type of animals, that show an
14	BY MR. HEGARTY:	14	association of talcum powder to increased risk of
15	Q. Well, cite for me the published articles reporting the	15	ovarian cancer. My work that has been done here in
16	same results that you got in an in vivo model.	16	cell lines is not many laboratory have done this in
17	MS. O'DELL: Objection, form.	17	ovarian cancer because this is our specialty, this is
18	THE WITNESS: There was no any in vivo	18	what we do. So we don't have part of it is done
19	studies done at the molecular level. This is my	19	probably like oxidative stress as collective like, for
20	study was the first comprehensive study that actually	20	example, some manuscripts, they measure hydrogen
21	does that.	21	peroxide as a marker of oxidative stress, so for
22	BY MR. HEGARTY:	22	experts in oxidative stress, you need to do more than
23	Q. What you found was in cell cultures.	23	just that. So I have seen in animals where there are
24	A. These are ovarian cancer cells from patients.	24	some biological effects in vivo.
25	Q. These are not ovarian cancer cells these are not	25	
	Page 191		Page 193
1	1 11 0		
	normal ovarian cancer cells, correct?	1	BY MR. HEGARTY:
2	normal ovarian cancer cells, correct? A. Some are, yes.	1 2	BY MR. HEGARTY: Q. I'm talking about the biological effects you report in
2	•		
	A. Some are, yes.	2	Q. I'm talking about the biological effects you report in
3	A. Some are, yes.Q. Well, they've been immortalized, correct?	2	Q. I'm talking about the biological effects you report in your manuscript.
3 4	A. Some are, yes.Q. Well, they've been immortalized, correct?A. The normal variance they have been immortalized.	2 3 4	Q. I'm talking about the biological effects you report in your manuscript.A. Which include some of this.
3 4 5	A. Some are, yes.Q. Well, they've been immortalized, correct?A. The normal variance they have been immortalized. They're sold as such.	2 3 4 5	Q. I'm talking about the biological effects you report in your manuscript.A. Which include some of this.Q. What literature can you cite for me that has shown
3 4 5 6	 A. Some are, yes. Q. Well, they've been immortalized, correct? A. The normal variance they have been immortalized. They're sold as such. Q. The data that you report in your manuscript has never 	2 3 4 5 6	Q. I'm talking about the biological effects you report in your manuscript.A. Which include some of this.Q. What literature can you cite for me that has shown these same biological effects in an in vivo model?
3 4 5 6 7	 A. Some are, yes. Q. Well, they've been immortalized, correct? A. The normal variance they have been immortalized. They're sold as such. Q. The data that you report in your manuscript has never been reported in an in vivo situation, correct? 	2 3 4 5 6 7	 Q. I'm talking about the biological effects you report in your manuscript. A. Which include some of this. Q. What literature can you cite for me that has shown these same biological effects in an in vivo model? MS. O'DELL: Object to the form.
3 4 5 6 7 8	 A. Some are, yes. Q. Well, they've been immortalized, correct? A. The normal variance they have been immortalized. They're sold as such. Q. The data that you report in your manuscript has never been reported in an in vivo situation, correct? MS. O'DELL: Object to the form. 	2 3 4 5 6 7 8	 Q. I'm talking about the biological effects you report in your manuscript. A. Which include some of this. Q. What literature can you cite for me that has shown these same biological effects in an in vivo model? MS. O'DELL: Object to the form. BY MR. HEGARTY:
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3 4 5 6 7 8 9 10	 A. Some are, yes. Q. Well, they've been immortalized, correct? A. The normal variance they have been immortalized. They're sold as such. Q. The data that you report in your manuscript has never been reported in an in vivo situation, correct? MS. O'DELL: Object to the form. THE WITNESS: So, again, using I have seen reports in vivo in animals that have shown the association of the talc with inflammation, yes. 	2 3 4 5 6 7 8 9 10	 Q. I'm talking about the biological effects you report in your manuscript. A. Which include some of this. Q. What literature can you cite for me that has shown these same biological effects in an in vivo model? MS. O'DELL: Object to the form. BY MR. HEGARTY: Q. The same biological effects you report in your manuscript. MS. O'DELL: Object to the form, asked and
3 4 5 6 7 8 9 10 11	 A. Some are, yes. Q. Well, they've been immortalized, correct? A. The normal variance they have been immortalized. They're sold as such. Q. The data that you report in your manuscript has never been reported in an in vivo situation, correct? MS. O'DELL: Object to the form. THE WITNESS: So, again, using I have seen reports in vivo in animals that have shown the association of the talc with inflammation, yes. BY MR. HEGARTY: 	2 3 4 5 6 7 8 9 10 11	 Q. I'm talking about the biological effects you report in your manuscript. A. Which include some of this. Q. What literature can you cite for me that has shown these same biological effects in an in vivo model? MS. O'DELL: Object to the form. BY MR. HEGARTY: Q. The same biological effects you report in your manuscript. MS. O'DELL: Object to the form, asked and answered.
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1 2 3	Page 194 THE WITNESS: So, yeah, I think I referenced	1	Page 196
2	THE WITNESS: So, yeah, I think I referenced	1	
		_	rats and mice, not the ovaries, correct?
3	some animal studies work here. Let's see. This is the	2	A. No, it was summarize a review of everything, the actual
	manuscript? I'm trying to find references. Yes.	3	study, yes.
4	Where is that paper? I can't remember this. I know	4	Q. The NTP didn't look at ovarian cancer, correct?
5	it's in the report. Yeah, it's right here, sorry. I	5	A. I'm not sure. I read from that study that they have
6	know I referenced it here.	6	summary, summary, and somewhere there I read that there
7	BY MR. HEGARTY:	7	was in vivo association of the talcum powder use with
8	Q. How much more time do you need, Doctor?	8	ovarian cancer. So that's called reference reference.
9	A. It's been a while, so I need to find out exactly where	9	Q. Your report
10	this is, but I know it's here. So it is some cited in	10	A. May I add something? I also read it somewhere else, I
11	reference 50, but that's not the author that's not	11 12	cannot remember right now.
12	the original reference, this is a cross-reference.		Q. Your report in your manuscript say that you in your
13	Q. You said cited in 50?	13 14	experiments found genotype switches at 72 hours; is that correct?
14 15	A. Number 50, but that's a cross-reference, if I recall	15	
16	correctly. O. You need more time?	16	A. Genotype switches, what are you referring to? MS. O'DELL: What page?
17	A. I do. I'm trying to look for it.	17	BY MR. HEGARTY:
18	Q. Let's go off the record.	18	Q. You report in your manuscript.
19	THE VIDEOGRAPHER: Going off the record at	19	A. Which particular
20	2:57 p.m.	20	Q. Well, let me ask you about your manuscript. Did your
21	(An off-the-record discussion was held.)	21	manuscript report genotype switches at 72 hours?
22	THE VIDEOGRAPHER: Back on the record at 2:59	22	A. The effect of talcum 72 hours induced SNP in genetic
23	p.m.	23	mutations.
24	BY MR. HEGARTY:	24	Q. And do you claim that those genetic mutations occurred
25	Q. Doctor, when we went off the record momentarily you	25	in all cells treated with talc, in your experiments?
	Page 195		
1		1	
1 2	were going through your references in your report to identify any in vivo animal models that you claim show	2	A. There is a table actually that summarize the results, and it doesn't show it with all markers, so we can
3	the same results that you report in your manuscript.	3	refer to it, so if you look, for example
4	Can you cite for us the publications that you contend	4	MS. O'DELL: What figure?
5	show the same results as your manuscript in an animal	5	THE WITNESS: The figure Table 2, if you look
6	model?	6	at GSR, GSR no effect, SOD3 no effect, catalase there
7	MS. O'DELL: Object to the form.	7	is an effect in some cells, not others, you can see
8	You may answer.	8	that A2780 has no effect, the talc treatment.
9	THE WITNESS: So I am responding that I read	9	BY MR. HEGARTY:
10	in some references and reviews that there was an in	10	Q. But with regard to the cells that it did have an
11	vivo animal studies that showed association of talcum	11	effect, SKOV-3, for example, with regard to
12	powder use with increased risk of ovarian cancer in	12	A. SKOV with regard to catalase, for example, has no
13	animal models, and the reference for that is in the NTP	13	effect.
14	studies.	14	Q. With regard to
15	BY MR. HEGARTY:	15	A. TOV112 with catalase there is an effect.
16	Q. That study did not measure the pro-oxidant and	16	Q. And was that effect in all the cells tested with talc?
17	anti-oxidant markers that you measure in your study,	17	MS. O'DELL: Object to the form.
18	correct?	18	THE WITNESS: I don't understand your
19	A. They talk about oxidative stress in general,	19	question.
20	inflammation in general.	20	BY MR. HEGARTY:
21	Q. But they don't that study doesn't measure the	21	Q. Well, don't you do you contend that those genotype
22	pro-oxidant or anti-oxidant markers that you report in	22	changes occurred in all cells treated with talc?
22	your study, correct?	23	A. I didn't say that.
23		2.4	O Did that hannan?
23 24 25	A. That study, no. Q. The NTP study concerned findings in the lungs of the	24 25	Q. Did that happen?A. No. What I'm saying is if you treat the cell line,

	Page 198		Page 200
1	okay, TOV112, with talc for 72 hours, there will be an	1	Q. What do you mean when you say induces significant
2	increase, an acquisition of this mutation. Now, you're	2	changes? What does that mean, what does the word
3	asking if I determined whether all cells in that	3	significant there mean?
4	population got this mutation.	4	A. Got you. So this means marginal change, it's not
5	Q. Correct.	5	here the words does not imply statistically significant
6	A. The answer is I don't know.	6	is that you're referring to, although the results were
7	Q. Are you able to determine the quantity of cells let	7	statistically significant, this is referring to the
8	me back up. How many cells are in the culture?	8	magnitude.
9	A. Yeah, so this is DNA extracted from 1 million cells	9	Q. And how do you define how did you define the
10	treated with 100 microgram per ml of talcum powder.	10	magnitude as significant?
11	Now, there is another way you can quantitate if we need	11	A. You don't, many readers assume significant is
12	to proceed further with this.	12	statistically significant.
13	Q. Are you able to estimate the volume of cells that this	13	Q. Was the choice of the word significant a subjective
14	genotype switch occurred in?	14	word choice by you?
15	MS. O'DELL: Object to the form.	15	A. I chose this word because it applies that there is a
16	THE WITNESS: The volume?	16	significant effect which I know it is.
17	BY MR. HEGARTY:	17	Q. And when you say significant effect, what do you mean?
18	Q. Yes, the number.	18	A. I mean both marginal and statistically significant.
19	MS. O'DELL: Object to form.	19	Q. What does it mean to have a marginal effect?
20	THE WITNESS: I just said, no, we can't.	20	A. Marked like, for example, it is not like 1 versus 1.35,
21	This technique will tell you yes or no, doesn't tell	21	it is 1 versus 3, that's mean marginal.
22	you how much how many, sorry.	22	Q. You say about the middle of that paragraph that in all
23	BY MR. HEGARTY:	23	talc treated cells, do you see where I'm reading?
24	Q. So would it tell you, yes, if it (coughing in	24	A. Yes.
25	room) only one of the 1 ml cells?	25	Q. There was a significant dose-dependent increase in
	Davis 100		D 201
	Page 199		Page 201
1	MS. O'DELL: Object to the form.	1	pro-oxidants iNOS, nitrate/nitrite, and MPO with a
2	THE WITNESS: Again, this is not	2	concomitant decrease in anti-oxidants CAT, SOD, GSR,
3	quantitative. This will tell you if there is a	3	and GPX. Do you see where I'm reading?
4	mutation or there is no mutation.	4	A. Yes.
5	BY MR. HEGARTY:	5	Q. What do you mean when you use the phrase significant
		_	
6	Q. Without regard to the number of cells the mutation	6	there?
7	occurred in?	7	there? A. It is indicated by the P value, so once you have the P
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7 8 9	occurred in? MS. O'DELL: Objection to the form. THE WITNESS: Okay. I will repeat myself	7 8 9	there? A. It is indicated by the P value, so once you have the P value, that's indicates statistically significant. Q. And when you say an increase and a decrease as compared
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7 8 9 10 11	occurred in? MS. O'DELL: Objection to the form. THE WITNESS: Okay. I will repeat myself again. This is this technique will tell you if there are population of cells that acquired this	7 8 9 10 11	there? A. It is indicated by the P value, so once you have the P value, that's indicates statistically significant. Q. And when you say an increase and a decrease as compared to what? A. To untreated. It says all tale treated cells.
7 8 9 10 11 12	occurred in? MS. O'DELL: Objection to the form. THE WITNESS: Okay. I will repeat myself again. This is this technique will tell you if there are population of cells that acquired this genotype.	7 8 9 10 11 12	there? A. It is indicated by the P value, so once you have the P value, that's indicates statistically significant. Q. And when you say an increase and a decrease as compared to what? A. To untreated. It says all talc treated cells. Q. There is no data that correlates your findings and your
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1	increasing in these pro-oxidants that we have here and	1	BY MR. HEGARTY:
2	decreasing the anti-oxidant that we studied. So this	2	Q. And that's been recognized to be associated in a genome
3	is a I have written a review article about this, I	3	wide significantly way?
4	have written a book chapter about this, this is the	4	MS. O'DELL: Object to the form.
5	major focus of my lab is to characterize the ovarian	5	THE WITNESS: I don't know what you mean by
6	cancer cells as a pro-oxidant, that they manifest a	6	genome wide.
7	pro-oxidant state and we characterize it.	7	BY MR. HEGARTY:
8	BY MR. HEGARTY:	8	Q. Well, you're familiar with what the
9	Q. There is no data showing that these increases or	9	A. SNP is
10	decreases increase the risk of ovarian cancer in women,	10	Q GWAS
11	correct?	11	A. Yes.
12	MS. O'DELL: Objection to form.	12	Q the GWAS study is, correct? Are you familiar with
13	THE WITNESS: Okay, so there are data that	13	that?
14	recent data that showing, for example, I'll give you an	14	MS. O'DELL: Would you repeat the question?
15	example, myeloperoxidase is a marker of inflammation.	15	I couldn't hear it.
16	My lab was the first lab in the entire world to report	16	BY MR. HEGARTY:
17	that myeloperoxidase is expressed by epithelial ovarian	17	Q. I asked him if he's familiar with what GWAS is.
18	cancer cells, although this marker is only supposed to	18	A. Yes.
19	be a myeloid marker, which is a blood marker, a blood	19	O. What is it?
20	cells marker, not a nonmyeloid. Several reports later	20	A. It's the genome wide association where they list all
21	they confirm my finding, and not only that, other labs	21	the SNPs and their frequency of occurrence and their
22	have just they reported that the SNP that we use	22	what they call it frequency of occurrence in general
23	here, it is correlated with increased risk of ovarian	23	population.
24	cancer, that's reported. That's number one.	24	Q. And what SNPs in your manuscript have been associated
25	Another example, SOD, catalase, those two	25	by the GWAS studies with ovarian cancer?
	1 /		•
	Page 203		Page 205
1		1	
1 2	enzymes and one more okay, but for those two, I know	1 2	A. So this, okay, we're mixing up two things. I need to
			A. So this, okay, we're mixing up two things. I need to clarify this. So the GWAS, they identify the SNP.
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	Page 206		Page 208
1	population, very clear.	1	you reference in your manuscript and ovarian cancer.
2	BY MR. HEGARTY:	2	MS. O'DELL: Object to the form.
3	Q. So it's your contention that the GWAS, the genome wide	3	THE WITNESS: So I'm not I am objecting to
4	significance of association doesn't list SNPs that are	4	the word statistically significant, but I can identify
5	associated with ovarian cancer?	5	several studies that, for example, looking at catalase
6	MS. O'DELL: Object to the form.	6	SNP and its association with increased risk of ovarian
7	THE WITNESS: What I'm saying is, to my	7	cancer, myeloperoxidase SNP and its association with
8	understanding, GWAS is an information bank where you go	8	increased risk of ovarian cancer, there was one more
9	and you say, okay, there is there exists a catalase	9	I'm skipping, and so those two were definitely there.
10	SNP, which is this SNP, this specific sequence that is	10	BY MR. HEGARTY:
11	present in .01 percent of general population. Above	11	Q. Why do you object to my use of the phrase statistical
12	that will be characterized as risk factor. So now in	12	significance?
13	the GWAS they identified the MPO SNP, the catalase SNP,	13	A. Because I am not sure if they did they did molecular
14	the SOD SNP, all SNPs that it's like an information	14	study or they did a different type of study, so I'm
15	bank where you go to to find your information and then	15	just, you know, not familiar with the epidemiological
16	you go and study them. I study them, others study	16	studies that they performed.
17	them, different labs can study them, but they do it for	17	Q. Well, cite for me any studies that show, as you say, an
18	us. It's like the gene sequencing bank, it's the same	18	association between MPO or CAT and ovarian cancer.
19	thing, same concept, protein sequence bank. I don't	19	MS. O'DELL: Object to the form.
20	need necessarily to go and sequence the whole thing to	20	THE WITNESS: MPO?
21	understand, it's already sequenced for me.	21	BY MR. HEGARTY:
22	BY MR. HEGARTY:	22	Q. Yes.
23	Q. What does it mean for a SNP to reach genome wide	23	A. The MPO SNP?
24	significance?	24	Q. Yes.
25	A. So there is a cutoff that they have in their website to	25	A. That's what we're talking about?
1	Page 207 each based on epidemiological studies that there is	1	Page 209 Q. Yes.
2	association, if it increased over this level, it could	2	A. Yes, I can cite.
3	be associated with diseases.	3	Q. Cite for me a study.
4	Q. Which of the SNPs that you reference in your manuscript	4	A. I don't remember it now, but there is study.
5	have been associated with ovarian cancer, in other	5	Q. Did you cite it in your manuscript?
6	words, which have reached genome wide significance?		
7		6	
	MS. O'DELL: Object to the form.	6 7	A. I believe so. Let's talk let's see about where we
8	MS. O'DELL: Object to the form. THE WITNESS: I can answer this. I know for		A. I believe so. Let's talk let's see about where we talk about SNP. Okay, were the first to do this
8 9		7	A. I believe so. Let's talk let's see about where we
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9	THE WITNESS: I can answer this. I know for a fact it's catalase, not only ovarian but also in	7 8 9	A. I believe so. Let's talk let's see about where we talk about SNP. Okay, were the first to do this sorry I would be very happy to provide you with these references that I mentioned, MPO and catalase and
9 10	THE WITNESS: I can answer this. I know for a fact it's catalase, not only ovarian but also in breast cancer, and they are twins.	7 8 9 10	A. I believe so. Let's talk let's see about where we talk about SNP. Okay, were the first to do this sorry I would be very happy to provide you with these references that I mentioned, MPO and catalase and the SNP in ovarian cancer.
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	Page 210		Page 212
1	THE WITNESS: I mean I may not even reference	1	am if you define lead author as corresponding author
2	it here so I don't know.	2	or first author?
3	THE VIDEOGRAPHER: Going off the record at	3	Q. First author.
4	3:23 p.m.	4	A. Is Dr. Belotte, he was an M.D., Ph.D. trained in my
5	(An off-the-record discussion was held.)	5	laboratory. I was his Ph.D. advisor.
6	THE VIDEOGRAPHER: We're back on the record	6	Q. What year? What is the year of the article?
7	at 3:26 p.m.	7	A. Oh, sorry, 2015.
8	BY MR. HEGARTY:	8	Q. What is the name of the article?
9	Q. Doctor, when we went off the record I asked you for any	9	A. Single Nucleotide Polymorphism in Catalase is Strongly
10	studies associating catalase or MPO with ovarian	10	Associated With Ovarian Cancer Survival.
11	cancer. You've had a chance to look for such studies,	11	Q. So that article doesn't have anything to do with
12	and what is your response?	12	ovarian cancer initiation, correct?
13	A. So there's one study by Olson, et al., that was	13	MS. O'DELL: Object to the form.
14	published in Gynecology Oncology 2004.	14	THE WITNESS: Is that another question?
15	Q. How do you spell his first name?	15	BY MR. HEGARTY:
16	A. O-l-s-o-n, and it's looking at SOD and MPO SNP. There	16	Q. Yes.
17	is an increased risk of ovarian cancer. I couldn't	17	A. Saying
18	find the catalase one, but it is there, I can search	18	Q. In that article, it associated catalase with ovarian
19	for it, it is hundred percent there. There is another	19	cancer survival, correct?
20	one looking at Superoxide dismutase published in JBC	20	A. Uh-huh.
21	Journal by Yumin, et al.	21	Q. It didn't associate catalase with causing ovarian
22	Q. How do you spell that?	22	cancer, correct?
23	A. Y-u-m-i-m, Hu, H-u. And there is one more which is	23	MS. O'DELL: Object to the form.
24	about catalase if you SNP.	24	THE WITNESS: So in this article what we did,
25	Q. What is the date of the Yumin article?	25	we actually, this is we identified the SNP and
	Page 211		Page 213
1	A. What's the data?	1	catalase that others also identified, and we looked at
2	Q. What's the date?	2	the presence of the SNP in chemoresistance versus
3	A. Oh, the date, I'm sorry. Can I look?	3	sensitive looking at different parameters, and we
4	Q. Yes.	4	actually reversed the SNP using the CRISPR editing,
5	A. So the date was 2005.	5	gene editing, and we induced apoptosis, so there was
6	Q. And then you believe there's an article that associates	6	like a survival mechanism.
7	catalase to ovarian cancer?	7	BY MR. HEGARTY:
8	A. Yes.	8	Q. Doctor, the article you actually cite and which you
9	Q. You can't recall that article sitting here today?	9	included as an author found that with regard to the
10	A. I have it here, it's Catalase Nucleotide SNP Strongly	10	seven selected SNP study, no association you found
11	Associated With Ovarian Cancer, this is by from our	11	no association with ovarian cancer risk, correct?
12	lab and from another lab, also.	12	MS. O'DELL: Object to the form.
13	Q. What is the who is the first author?	13	THE WITNESS: Which article you talking
14	A. From my lab?	14	about?
15	Q. Well, you said	15	BY MR. HEGARTY:
16	A. This second one, the second one is by so this is our	16	Q. The article with the lead author Belotte, Belotte.
17	paper, and there's one here.	17	A. Jimmy Belotte, okay, what about it?
18	Q. When you say our paper, who's the lead author?	18	Q. Your article looked at CAT, CYBA, GPX1, GSR, MnSOD
	A. Okay. Can I just tell you the paper? So this is	19	MPO, and NOS2, correct?
19	published in it says The Effect of Catalase SNP and	20	A. Yes.
19 20	=	21	Q. You found doing the same kind of testing you did here
	Susceptibility to Ovarian Cancer, and this is by		
20	Susceptibility to Ovarian Cancer, and this is by published in doesn't it's in 2017, and it doesn't	22	that none of those SNPs was associated with ovarian
20 21 22 23	Susceptibility to Ovarian Cancer, and this is by published in doesn't it's in 2017, and it doesn't tell me the journal, Journal of Obstetrics and	22 23	cancer risk, correct?
20 21 22	Susceptibility to Ovarian Cancer, and this is by published in doesn't it's in 2017, and it doesn't	22	

	Page 214		Page 216
1	MS. O'DELL: Excuse me. Object to the form.	1	that it? And it's also in your notebook at 34 if you
2	If you need to see the paper	2	both need it so.
3	THE WITNESS: Yeah, it's been a while but	3	THE WITNESS: Can I look at it?
4	MS. O'DELL: If you need to see the paper.	4	BY MR. HEGARTY:
5	SAED DEPOSITION EXHIBIT NUMBER 17,	5	Q. Yes, go ahead and look at 34.
6	RESEARCH ARTICLE,	6	A. I can't remember if we did the same SNP in both
7	WAS MARKED BY THE REPORTER	7	studies, so I just want to make sure that we did that,
8	FOR IDENTIFICATION	8	because there are several SNPs for the same enzyme
9	BY MR. HEGARTY:	9	reported in the GWAS.
10	Q. I marked as Exhibit 17 the paper.	10	Q. How long will it take you to look at you did the
11	A. Very good.	11	same SNPs in the Belotte article as you did here?
12	Q. Show me in that paper where you found an association	12	A. I have to look at the accession numbers and compare
13	with the listed SNPs and ovarian cancer risk.	13	them.
14	A. Okay. So there is no this study we looked at, this	14	Q. Well, we'll maybe get to that, but my question goes
15	particular SNP and catalase that we found, the other we	15	back to your reference on Page
16	found that they are not associated with survival, so	16	MS. O'DELL: 34.
17	this study was basically looking at survival of ovarian	17	MR. HEGARTY: Your reference to that article
18	cancer. So this is not a study meant to study risk.	18	on Page 11 of your manuscript, you quote that article
19	MR. KLATT: Objection, nonresponsive.	19	as saying that you examined several selected known gene
20	BY MR. HEGARTY:	20	mutations corresponding to SNPs known to be associated
21	Q. If you look over at Page 11 of your manuscript.	21	with altered enzyme activity and increased cancer risk.
22	MS. O'DELL: Which page	22	What part of that Belotte article shows that the SNPs
23	MR. HEGARTY: It's Exhibit 7.	23	that you examined are associated with increased cancer
24	MS. O'DELL: Well, he just has one manuscript	24	risk?
25	in his hand. Do you know where we are, Doctor?	25	THE WITNESS: So if you look at the table,
	Page 215		Page 217
1	Page 215 THE WITNESS: Page 11	1	Page 217 Page 3, Dr. Belotte's article, there is a table here
1 2	_	1 2	
	THE WITNESS: Page 11		Page 3, Dr. Belotte's article, there is a table here
2	THE WITNESS: Page 11 BY MR. HEGARTY:	2	Page 3, Dr. Belotte's article, there is a table here that lists what is the SNP, what is the mean allele
2	THE WITNESS: Page 11 BY MR. HEGARTY: Q. Yes, Page 11. The first sentence of the third	2 3	Page 3, Dr. Belotte's article, there is a table here that lists what is the SNP, what is the mean allele frequency occurrence, the chromosomal equation, and if
2 3 4	THE WITNESS: Page 11 BY MR. HEGARTY: Q. Yes, Page 11. The first sentence of the third paragraph beginning To Elucidate the Mechanism, do you	2 3 4	Page 3, Dr. Belotte's article, there is a table here that lists what is the SNP, what is the mean allele frequency occurrence, the chromosomal equation, and if it is known nucleotide switch, and the effect of
2 3 4 5	THE WITNESS: Page 11 BY MR. HEGARTY: Q. Yes, Page 11. The first sentence of the third paragraph beginning To Elucidate the Mechanism, do you see that?	2 3 4 5	Page 3, Dr. Belotte's article, there is a table here that lists what is the SNP, what is the mean allele frequency occurrence, the chromosomal equation, and if it is known nucleotide switch, and the effect of activity. So there are SNPs that affect activity of
2 3 4 5 6	THE WITNESS: Page 11 BY MR. HEGARTY: Q. Yes, Page 11. The first sentence of the third paragraph beginning To Elucidate the Mechanism, do you see that? A. Yes.	2 3 4 5 6	Page 3, Dr. Belotte's article, there is a table here that lists what is the SNP, what is the mean allele frequency occurrence, the chromosomal equation, and if it is known nucleotide switch, and the effect of activity. So there are SNPs that affect activity of the enzymes, and if they do, they are, according to our
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	Page 218		Page 220
1	MR. KLATT: Nonresponsive.	1	with it.
2	BY MR. HEGARTY:	2	MS. O'DELL: It is not.
3	Q. Doctor, you also examined whether the SNPs reported in	3	MR. KLATT: He's perfectly entitled to look
4	this study were associated with ovarian cancer risk,	4	things up to answer them, but it doesn't count against
5	correct, not just survival?	5	our time.
6	MS. O'DELL: Objection, form.	6	MS. O'DELL: He's not looking things up.
7	THE WITNESS: Give me a moment to see, to	7	He's looking at the exhibit that had been placed before
8	refresh my memory. This is 2015, so I need to remember	8	him.
9	what we did. I have done many work.	9	THE COURT REPORTER: Excuse me
10	BY MR. HEGARTY:	10	(Simultaneous crosstalk.)
11	Q. How much time do you need to study that article?	11	MS. O'DELL: We are on the record.
12	A. Just okay, so in this study we only did survival,	12	And, Doctor, if you are prepared to respond
13	the Jimmy Belotte study, this is my yeah, so this	13	to the question, you may do so. If you need a minute,
14	here we only did analysis of survival.	14	let us know that.
15	Q. Doctor, if you turn over to Page 6 of that article at	15	BY MR. HEGARTY:
16	the very bottom, third from third line from the	16	Q. How much time do you need to review the article,
17	bottom, you write that currently we demonstrated that	17	Doctor?
18	there is no association between the selected SNPs and	18	A. I'm just asking you, please, where do you see in Table
19	risk of developing ovarian cancer, citing Table 2,	19	2.
20	those are your words, correct?	20	Q. I'm referring to your words at the bottom of Page 6
21	A. Yeah, Table 2 is, let's see	21	that's referring over to Table 2, and I'm asking you is
22	MS. O'DELL: What were you reading?	22	it your testimony that you did not investigate the
23	MR. HEGARTY: The bottom of Page 6 of 12.	23	association in this paper between these SNPs and
24	THE WITNESS: Yeah, I see that.	24	ovarian cancer risk, is that your testimony?
25		25	MS. O'DELL: Are you quoting a sentence?
	Page 219		D 001
			Page 221
1	BY MR. HEGARTY:	1	
1 2	BY MR. HEGARTY: Q. Doctor, is it your testimony that in this study you did	1 2	What sentence are you referring to? MR. HEGARTY: I'm not you're not taking
			What sentence are you referring to?
2	Q. Doctor, is it your testimony that in this study you did	2	What sentence are you referring to? MR. HEGARTY: I'm not you're not taking
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	Page 224
1	answer it again.
2	MS. O'DELL: You can go ahead and finish.
3	Stop interrupting.
4	THE COURT REPORTER: I cannot take
5	everybody
6	MS. O'DELL: Here's my objection. The
7	witness is being interrupted while he's trying to
8	respond to the question, and so if there's a question
9	pending the doctor is trying to answer, you cannot
10	interrupt him.
11	MR. HEGARTY: Well, the record's going to
12	speak for itself as far as his nonresponsiveness to my
13	question.
14	MS. O'DELL: Were you finished with your
15	answer?
16	MR. HEGARTY: I withdrew the question.
17	MS. O'DELL: Were you finished with your
18	answer?
19	THE WITNESS: So what I'm trying to tell you,
20	I cannot remember that we did the same exact SNP in
21	Jimmy Belotte study and this study.
22	BY MR. HEGARTY:
23	Q. That was not my question. My question is specific to
24	this study.
25	A. To the Jimmy Belotte study.
1	Page 225 Q. Correct.
2	A. Yes.
3	Q. And reading from your study in the abstract, starting
4	on the third line it says we sought to evaluate the
5	association of SNPs in key oxidant and anti-oxidant
6	enzymes with increased risk in survival in epithelial
7	ovarian cancer. So you agree in this study that you
8	looked at certain specific SNPs with regard to
9	increased risk of ovarian cancer, correct?
10	A. Those SNPs, yes.
11	Q. You found from your study that those SNPs were not
12	associated with increased ovarian cancer risk, correct?
13	A. Correct.
14	MS. O'DELL: Object to the form.
15	THE WITNESS: Correct.
16	BY MR. HEGARTY:
17	Q. Can you cite for me any study that has shown the SNPs
18	you report, you discuss in your manuscript to occur in
19	women using talc?
20	MS. O'DELL: Object to the form.
21	THE WITNESS: That the SNP that we used in
	this study
22	BY MR. HEGARTY:
22 23	Q. In the manuscript.
	1

	Page 226		Page 228
1	associated with woman using talc?	1	THE WITNESS: So other than the similarities
2	Q. Correct.	2	in the mechanism, direct link with woman who use
3	A. I don't know.	3	specific talc on that day, I don't know.
4	Q. Can you report can you cite for me any studies	4	BY MR. HEGARTY:
5	showing the enzyme activity that you report to have	5	Q. Let's take a break.
6	occurred with application of talc use to be in women	6	THE VIDEOGRAPHER: We're going off the record
7	using talc?	7	at 3:49 p.m.
8	MS. O'DELL: Object to the form.	8	(A short recess was taken.)
9	THE WITNESS: So if other people have done	9	THE VIDEOGRAPHER: We're back on the record
10	the same work that I did with samples from woman who	10	at 4:05 p.m.
11	got ovarian cancer and they used talc?	11	BY MR. HEGARTY:
12	BY MR. HEGARTY:	12	Q. Doctor, in looking at your manuscript again Page 13,
13	Q. Can you cite for me any study showing your findings as	13	I'm sorry, in looking at your report, sorry, Page 13,
14	to decrease in the expression of anti-oxidant enzymes	14	you describe the cell lines that you use for purposes
15	and the increased expression in pro-oxidant enzymes in	15	of your experiments, is that correct?
16	women using tale?	16	A. In the cell lines section?
17	MS. O'DELL: Object to the form.	17	Q. Yes.
18	THE WITNESS: I can cite to you several	18	A. Yes.
19	studies that have indicated the pro-oxidant state and	19	Q. Which of those cell lines strike that. What sub
20	the anti-oxidant state in several human, animal, in	20	type of ovarian cancer are these cells?
21	vitro studies of cells with ovarian cancer.	21	A. Sorry. Unknown.
22	BY MR. HEGARTY:	22	Q. You don't know whether they're high grade, serous,
23	Q. That's not my question. My question, Doctor, is can	23	endometrioid, mucinous, clear cell?
24	you cite for me any studies showing your findings as to	24	MS. O'DELL: Object to the form.
25	decrease in the expression of anti-oxidants and the	25	THE WITNESS: When we purchased these cell
	Page 227		Page 229
1	increase expression of pro-oxidants in women using talc	1	lines from ATCC, they have described them where they
2	on their bodies?	2	isolated from and what's the patient and all that, but
3	MS. O'DELL: Object to the form.	3	I can't remember exactly which one is which.
4	THE WITNESS: I don't know.	4	BY MR. HEGARTY:
5	BY MR. HEGARTY:	5	Q. So are any of these cell lines or have any of these
6	Q. Can you cite for me any study showing the results	6	cell lines been qualified as high grade serous ovarian
7	showing any of the results in your manuscript to	7	cancer cell lines?
8	occur to have occurred in women applying talc to	8	MS. O'DELL: Object to the form.
9	their bodies?	9	THE WITNESS: I can't remember.
10	MS. O'DELL: Object to the form.	10	BY MR. HEGARTY:
10 11	MS. O'DELL: Object to the form. THE WITNESS: So let's go back. I have	10 11	BY MR. HEGARTY: Q. You say that your experiments used what you call
	•		
11	THE WITNESS: So let's go back. I have	11	Q. You say that your experiments used what you call
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1	Q. But normal cells are not immortalized cells, correct?	1	THE WITNESS: So, again, I said one of the
2	A. Correct.	2	cell lines, I can't remember which, is from high grade,
3	Q. And to immortalize a cell, you have to fundamentally	3	high serous grade. The others are not clearly
4	change the cell, correct?	4	identified by the ATCC information provided. But that
5	A. Not correct.	5	was not my point of my research. My point of my
6	Q. Well, you typically have to induce something like the	6	research is to see does talcum powder induces or alter
7	SV40 DNA tumor virus, correct?	7	oxidative stress markers that we know and we have
8	A. Correct.	8	published in several documents that is associated with
9	Q. And that alters the makeup of the cells, correct?	9	ovarian cancer.
10	A. Not necessarily.	10	BY MR. HEGARTY:
11 12	Q. Well, it essentially shuts off, for example, the P53 cell, P53 marker, correct?	11 12	Q. Can you cite for me any data showing that the
13	A. Oncogene.	13	concentrations of exposure that you used in your experiments are similar or the same as would be
14	Q. Oncogene, correct? And these cells carry essentially a	14	occurring in women using talc on the perineum?
15	functional equivalent of four critical oncogenes,	15	A. I can't tell you that.
16	oncogenic mutations in tumor suppression pathways that	16	Q. Can you cite for me any data that shows that the level
17	have been implicated in ovarian carcinogenesis,	17	of concentration of talc that you used in your cell
18	correct?	18	studies has ever occurred in women applying talc to
19	A. Let me explain to you, I have been conducting research	19	their bodies?
20	all my career using primary cultures of cells	20	MS. O'DELL: Object to the form.
21	established from fresh from patient tissues as well	21	THE WITNESS: My response to this is I
22	as immortalized cell lines. The problem with using	22	consider, according to my studies, I consider talc
23	primary cultures, the results cannot be reproduced,	23	powder to be carcinogenic, and in my understanding of
24	because if you passage the cells, they change their	24	biology of cancer, there is no minimum threshold beyond
25	phenotype with passages, so researcher agreed upon this	25	which you are protected from developing cancer. Every
	Page 231		Page 233
1	is the best utility that you have in vitro, that you	1	time you're exposed to the insult. It's like
2	can use immortalized cell lines, at least they are	2	radiation, it is a accumulative, it is registered in
3	all their machinery of gene expression is controlled	3	your body; that's my opinion.
4	and it's consistent and reproducible with passages.	4	BY MR. HEGARTY:
5	Q. Did you do anything to correlate the cell lines you	5	Q. So your opinion is that one particle of talc is enough
6	used to, for example, serous ovarian cancer cells in	6	to cause inflammation to lead to ovarian cancer?
7	vivo?	7	A. I did not say that.
8	MS. O'DELL: Object to the form.	8	Q. Well, how much talc must there be introduced in vivo to
9	THE WITNESS: Yeah, so from patients, this is	9	cause ovarian cancer?
10	our my next interest to do, to go I have	10	A. I don't know.
11	extensive experience and expertise in isolating primary	11	Q. At what strike that. What data shows that a woman
12	cultures at zero passages from patients' tissues,	12	using talc will have the same level of talc exposure to
13	blood, and the fluid, and it is in my mind to do	13	her ovarian cells or fallopian tube cells as you used
14	further testing of talcum powder and see if we can	14	in your experiments?
1 -	named as a the effect on the 11-		
15 16	reproduce the effect on those cells.	15 16	MS. O'DELL: Object to the form. THE WITNESS: So when you want to test the
16	BY MR. HEGARTY:	16	THE WITNESS: So when you want to test the
16 17	BY MR. HEGARTY: Q. When you say those cells, what do you mean?	16 17	THE WITNESS: So when you want to test the effect of any substance in the biology of the body, you
16 17 18	BY MR. HEGARTY: Q. When you say those cells, what do you mean? A. The primary freshly established cells from different	16 17 18	THE WITNESS: So when you want to test the effect of any substance in the biology of the body, you always start with cell cultures, cell lines, so this is
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16 17 18 19	BY MR. HEGARTY: Q. When you say those cells, what do you mean? A. The primary freshly established cells from different histotypes of ovarian cancer. Q. Did you do anything A. Because this is not available commercially.	16 17 18 19 20	THE WITNESS: So when you want to test the effect of any substance in the biology of the body, you always start with cell cultures, cell lines, so this is pretty accepted standard. Now, the amount of exposure in cell lines, because it's direct and it is an isolated environment, it is definitely not does not
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16 17 18 19 20 21 22	BY MR. HEGARTY: Q. When you say those cells, what do you mean? A. The primary freshly established cells from different histotypes of ovarian cancer. Q. Did you do anything A. Because this is not available commercially. Q. Did you do anything to establish that the cell lines you were looking at are, for example, high grade	16 17 18 19 20 21 22 23	THE WITNESS: So when you want to test the effect of any substance in the biology of the body, you always start with cell cultures, cell lines, so this is pretty accepted standard. Now, the amount of exposure in cell lines, because it's direct and it is an isolated environment, it is definitely not does not correlate with the in vivo and how much you will get with that exposure. The answer is I don't know how

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1	use. But what I do know, talcum powder induces is a	1	A. The blood of woman with ovarian cancer.
2	carcinogenic and induces similar response to the	2	Q. No studies have reported those same results in the
3	profile that we see in pro-oxidant state that we	3	blood of women who do not have ovarian cancer but are
4	extensively characterize in studies in ovarian cancer	4	using talc on their bodies, correct?
5	in our laboratory and others.	5	A. One more time.
6	BY MR. HEGARTY:	6	MS. O'DELL: Object to the form.
7	Q. It induces talc induces a similar response to the	7	BY MR. HEGARTY:
8	profile that you see in pro-oxidant state in the cell	8	Q. No studies have reported those same results in the
9	cultures that you experimented, correct, experimented	9	blood of women who do not have ovarian cancer that are
10	with, correct?	10	using talc on their bodies, correct?
11	MS. O'DELL: Object to the form.	11	A. I don't know.
12	THE WITNESS: We and others have reported,	12	Q. When you say you don't know, what do you mean?
13	for example, there was a report showing that patients	13	A. I don't know if there are studies. So you talking
14	with ovarian cancer, their blood is contain high levels	14	are you referring to the study I'm only referring to
15	of pro-oxidants, so that's an indication that ovarian	15	patients with ovarian cancer, blood, their blood have
16	cancer as a result of getting ovarian cancer your	16	high oxidants. Now, if normal, talk about normal
17	blood is have high levels of oxidants that we	17	people with normal woman with no ovarian cancer, they
18	characterized. And there are many other studies that	18	have I don't know, if they use talc they will have
19	have shown that in vivo that there is an association	19	higher level of oxidants, maybe that's something we
20	between oxidative stress and the risk of developing	20	need to do.
21	ovarian cancer.	21	Q. You don't know you're not aware of any data showing
22	BY MR. HEGARTY:	22	high oxidant levels in women using talc who do not have
23	Q. But none of those studies have shown those effects in	23	ovarian cancer?
24	women using talc, correct?	24	A. I would be very much interested to do it.
25	A. I don't know.	25	Q. You're not aware of any such studies?
	Page 235		Daga 227
	3		Page 237
1		1	A. No.
1 2	Q. You don't know of any such studies?A. I don't know if those studies included in their	1 2	
	Q. You don't know of any such studies?		A. No.
2	Q. You don't know of any such studies?A. I don't know if those studies included in their	2	A. No.Q. Can you can cite for me anyone in the scientific
2	Q. You don't know of any such studies?A. I don't know if those studies included in their population women that who have used talc or not.	2 3	A. No. Q. Can you can cite for me anyone in the scientific community who has accepted that talcum powder causes
2 3 4	Q. You don't know of any such studies?A. I don't know if those studies included in their population women that who have used talc or not.Q. You can't site for me any studies that have shown the	2 3 4	 A. No. Q. Can you can cite for me anyone in the scientific community who has accepted that talcum powder causes ovarian cancer by the mechanism that you refer to in
2 3 4 5	Q. You don't know of any such studies?A. I don't know if those studies included in their population women that who have used talc or not.Q. You can't site for me any studies that have shown the levels of pro-oxidant or anti-oxidant states that you	2 3 4 5	 A. No. Q. Can you can cite for me anyone in the scientific community who has accepted that talcum powder causes ovarian cancer by the mechanism that you refer to in your report?
2 3 4 5 6	 Q. You don't know of any such studies? A. I don't know if those studies included in their population women that who have used talc or not. Q. You can't site for me any studies that have shown the levels of pro-oxidant or anti-oxidant states that you report in your papers in women using talc, correct? 	2 3 4 5 6	A. No.Q. Can you can cite for me anyone in the scientific community who has accepted that talcum powder causes ovarian cancer by the mechanism that you refer to in your report?A. Give names?
2 3 4 5 6 7	 Q. You don't know of any such studies? A. I don't know if those studies included in their population women that who have used talc or not. Q. You can't site for me any studies that have shown the levels of pro-oxidant or anti-oxidant states that you report in your papers in women using talc, correct? MS. O'DELL: Object to the form. 	2 3 4 5 6 7	 A. No. Q. Can you can cite for me anyone in the scientific community who has accepted that talcum powder causes ovarian cancer by the mechanism that you refer to in your report? A. Give names? Q. Yes.
2 3 4 5 6 7 8	 Q. You don't know of any such studies? A. I don't know if those studies included in their population women that who have used talc or not. Q. You can't site for me any studies that have shown the levels of pro-oxidant or anti-oxidant states that you report in your papers in women using talc, correct? MS. O'DELL: Object to the form. THE WITNESS: I just answered you. 	2 3 4 5 6 7 8	 A. No. Q. Can you can cite for me anyone in the scientific community who has accepted that talcum powder causes ovarian cancer by the mechanism that you refer to in your report? A. Give names? Q. Yes. A. The co-authors of my manuscript.
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	Page 238		Page 240
1	A. Which community you talking about?	1	ovarian cancer is in a hypothesis is a cause and
2	Q. Well, I'm talking about the medical community.	2	effect. My opinion is based on that.
3	A. The doctors?	3	Q. Are the methods that you used to reach those opinions
4	Q. Doctors.	4	published anywhere?
5	A. Researchers?	5	A. The method that we used to do to test the effect of
6	Q. Researchers.	6	talcum powder on reactive oxygen species, oxidative
7	MS. O'DELL: Object to the form.	7	stress, and inflammation is very basic methodology
8	BY MR. HEGARTY:	8	let me finish, please basic methodology that is
9	Q. You agree that the medical community, doctors and	9	known since early 70s or even mid 70s, some of it,
10	researchers, have not generally accepted that talc use	10	ELISA is a very well method, very standard method, we
11	causes ovarian cancer?	11	and others use this all the time. PCR is another well
12	MS. O'DELL: Object to the form.	12	established method. Every single study now you see PCR
13 14	THE WITNESS: I don't know, I really don't	13 14	all over the places. So what the methodology that we
15	know if they do or not. BY MR. HEGARTY:	15	employed here is really standard methodology, and I'm really surprised that this work that has not been done
16		16	till now.
17	Q. You include in your report, in particular in the summary of your report over on Page 20, in Paragraphs 5	17	Q. Are your opinions based solely on the experiments that
18	and 6 that use of Johnson's Baby Powder can cause	18	you did that are set out in your manuscript?
19	ovarian cancer, and in Paragraph 6 can worsen the	19	MS. O'DELL: Object to the form.
20	prognosis of patients with ovarian cancer, correct?	20	THE WITNESS: My opinion is based on the data
21	A. Correct.	21	from this manuscript and this work that I did and,
22	Q. By what methodology did you use to come to those	22	also, in published literature that identify the
23	opinions?	23	pattern, the signature of pro-oxidants in ovarian
24	A. Okay. So I have to distinguish between opinions versus	24	cancer.
25	conclusion from results. So here I cite my personal	25	
	Page 239		Page 241
1	opinion. Now, my personal opinion is based on my data	1	BY MR. HEGARTY:
2	that I got here. The data that I tested, my	2	Q. The opinions that you set out in Paragraphs 5 and 6
3	methodology that I used, and the results of this study		
4		3	have never been published in the peer-reviewed
	strongly divert pushed my opinion towards this.	4	literature, correct?
5	Q. My question is a little bit different, Doctor. By what	4 5	literature, correct? A. My opinion?
5 6	Q. My question is a little bit different, Doctor. By what published methodology did you use to reach your	4 5 6	literature, correct? A. My opinion? MS. O'DELL: Object to the form.
5 6 7	Q. My question is a little bit different, Doctor. By what published methodology did you use to reach your causation opinions in this case?	4 5 6 7	literature, correct? A. My opinion? MS. O'DELL: Object to the form. BY MR. HEGARTY:
5 6 7 8	 Q. My question is a little bit different, Doctor. By what published methodology did you use to reach your causation opinions in this case? MS. O'DELL: Objection, asked and answered. 	4 5 6 7 8	literature, correct? A. My opinion? MS. O'DELL: Object to the form. BY MR. HEGARTY: Q. Yes. The opinions in Paragraphs 5 and 6 have never
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	Page 242		Page 244
1	you mean?	1	BY MR. HEGARTY:
2	BY MR. HEGARTY:	2	Q. By you.
3	Q. Well, my question is the opinions you said in	3	A. My opinion?
4	Paragraphs 5 and 6 have never been published anywhere,	4	Q. Yes.
5	correct?	5	A. Has never been I never said this before, this
6	MS. O'DELL: Object to the form.	6	study
7	THE WITNESS: No. What I'm saying is these	7	Q. Correct.
8	are my own, my own opinion, my own writing, writing.	8	A is that what you're saying?
9	If someone stole this and published it, I'm not aware	9	Q. Before your report.
10	of that, but this is my language, my words, my opinion,	10	A. About specifically talc and ovarian cancer?
11	and this is based, as I told you and as I mentioned, on	11	Q. Yes.
12	my data and the results of this study as well as what	12	A. Yes.
13	is known for the strong link of ovarian cancer and	13	Q. And you never said in any other writing that use of
14	oxidative stress.	14	baby powder worsens the prognosis for patients with
15 16	BY MR. HEGARTY:	15	ovarian cancer?
16 17	Q. Listen to my question. You have never published the	16 17	 I didn't write about this subject prior to starting these experiments.
18	opinions of yours set out in Paragraphs 5 and 6 of your report, correct?	18	Q. Even in your manuscript, you don't include the opinion
19	* '	18	Q. Even in your manuscript, you don't include the opinion that talcum powder use causes ovarian cancer, correct?
20	MS. O'DELL: Object to the form. THE WITNESS: I have published that ovarian	20	A. You cannot include opinions in manuscripts.
21	cancer is characterized and ovarian cancer cells	21	Q. That's not my question. My question is that your
22	manifest a pro-oxidant state, I have published that	22	manuscript does not include your opinion that talcum
23	BY MR. HEGARTY:	23	powder use causes ovarian cancer, correct?
24	Q. Nowhere have you	24	A. I answered you.
25	A that can lead to a mechanism to identify	25	MS. O'DELL: Object to the form.
	Page 243		
			Page 245
1	actually, we did identify a pathogenesis, a mechanism	1	BY MR. HEGARTY:
2	that involves these specific pro-oxidants to be unique	2	BY MR. HEGARTY: Q. Am I correct?
2	that involves these specific pro-oxidants to be unique mechanism of survival in ovarian cancer.	2	BY MR. HEGARTY: Q. Am I correct? MS. O'DELL: Object to the form.
2 3 4	that involves these specific pro-oxidants to be unique mechanism of survival in ovarian cancer. Q. Nowhere have you published in any literature that talc	2 3 4	BY MR. HEGARTY: Q. Am I correct? MS. O'DELL: Object to the form. THE WITNESS: Excuse me, one more time. I
2 3 4 5	that involves these specific pro-oxidants to be unique mechanism of survival in ovarian cancer. Q. Nowhere have you published in any literature that talc use can cause ovarian cancer, correct?	2 3 4 5	BY MR. HEGARTY: Q. Am I correct? MS. O'DELL: Object to the form. THE WITNESS: Excuse me, one more time. I said in manuscripts you are not allowed to publish to
2 3 4 5 6	that involves these specific pro-oxidants to be unique mechanism of survival in ovarian cancer. Q. Nowhere have you published in any literature that talc use can cause ovarian cancer, correct? A. Previous to this study?	2 3 4 5 6	BY MR. HEGARTY: Q. Am I correct? MS. O'DELL: Object to the form. THE WITNESS: Excuse me, one more time. I said in manuscripts you are not allowed to publish to draw opinions, in manuscripts you're allowed to draw
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2 3 4 5 6 7 8 9	that involves these specific pro-oxidants to be unique mechanism of survival in ovarian cancer. Q. Nowhere have you published in any literature that talc use can cause ovarian cancer, correct? A. Previous to this study? Q. This study your report has not been published, correct? A. No. Q. It's not been peer reviewed, correct?	2 3 4 5 6 7 8 9	BY MR. HEGARTY: Q. Am I correct? MS. O'DELL: Object to the form. THE WITNESS: Excuse me, one more time. I said in manuscripts you are not allowed to publish to draw opinions, in manuscripts you're allowed to draw conclusions, so conclusions are different than opinions. Conclusions are based solely on the results. Opinions, you can say it, if you say it, then if they accept it, it's fine, but opinions are based on not
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	Page 246		Page 248
1	Q. Listen to my question.	1	A. What I know is CA-125 is accepted, it's the only
2	A. Okay.	2	accepted marker because that's the only one available,
3	Q. Does your manuscript say that Johnson's Baby Powder	3	although not specific to ovarian cancer, but we use it
4	exposure can cause ovarian cancer?	4	for preliminary following up treatment and diagnosis.
5	A. In this specific language?	5	You can, you know, I can defer to a clinician to answer
6	Q. Yes.	6	more about that, but what I know is that it is not
7	A. I have to look.	7	specific to ovarian cancer, endometriosis can increase
8	Q. Okay. How about do you have to look	8	levels of CA-125, some other inflammatory can do that.
9	A. Because you're asking me it's not fair, you're	9	Q. Doctor, listen to my question. My question was that no
10	asking me for a specific language, and I am saying, I'm	10	studies have correlated CA-125 levels with ovarian
11	answering back saying that my opinion, it does. Based	11	cancer risk, correct?
12	on the results in my manuscript, I concluded that it	12	MS. O'DELL: Object to the form.
13	will it has increased risk of ovarian cancer, yes,	13	THE WITNESS: Again, I told you, I'm not an
14	somewhere. I have to read. That's what I'm saying. I	14	expert in CA-125 and its clinical utility. What I'm
15	don't remember where I did that.	15	trying to tell you is that CA-125 is a marker that
16	Q. Okay.	16	clinician, OB-GYN oncologist, use to help them diagnose
17	A. I have to go and refer to the manuscript. Is that	17	and follow up the effect of the efficacy of
18	fair?	18	treatment. Now, this molecule is a marker of
19	Q. In Paragraph 6, what do you mean when you say Johnson's	19	inflammation, and we and our results shows clearly that
20	Baby Powder exposure worsens the prognosis for patients	20	talcum powder can induce this inflammatory marker that
21	with ovarian cancer?	21	has been clinically used by clinicians to help them
22	A. Oh, we're still here? I'm sorry, where	22	diagnose and, more importantly, follow up the efficacy
23	Q. Paragraph 6 in your report.	23	of treatment.
24	A. Oh, my report now?	24 25	BY MR. HEGARTY:
25	Q. On Page 21.	25	Q. Dr. Listen, to my question. I'll ask a different
	Page 247		Page 249
1	A. 21?	1	question. CA-125 is used only in monitoring disease
2			question. Cri 123 is used only in monitoring disease
	Q. Yes.	2	progress in women who have ovarian cancer, correct?
3	Q. Yes.A. Okay, yes, so same, same discussion.		
3 4		2	progress in women who have ovarian cancer, correct?
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Page 252 Page 250 MS. O'DELL: Object to the form. 1 1 results in further inhibition of apoptosis and increase 2 THE WITNESS: Ask the OB-GYN oncologist. 2 of survival -- apoptosis, cell death, cell death. 3 3 BY MR. HEGARTY: Q. Doctor, listen to my question. Can you cite for me any 4 Q. If you look at your manuscript over at Table 2. 4 other substances that have ever been reported to cause 5 A. Okay. 5 these kinds of mutations after 72 hours of treatment in 6 6 Q. What is the mechanism by which talc causes the SNP cell cultures? 7 changes or switches you report in this table? 7 A. I cannot recall now. 8 A. Do I know the mechanism that does that? 8 Q. The cell cultures you used are at high oxygen levels, 9 9 O. Yes. are at high oxygen levels than in vivo, correct? 10 10 A. Precisely, no, but we have previously published a A. I don't understand the question. 11 11 report showing that development of chemoresistance, Q. Well, the cell cultures that you use for purpose of 12 which is an ovarian cancer -- ovarian cancer disease 12 your experiments are at higher oxygen levels than these 13 that is characterized by even further enhancement of 13 cells would experience in vivo, correct? 14 14 A. You mean the whole world of researcher used? oxidative stress, we have published that is associated 15 with these SNPs. So the precise mechanism I'm 15 Q. No, that the cell lines that you used --16 A. The whole world of researcher used, same 20 percent 16 proposing that according to my understanding is that 17 17 the higher the oxidative stress level, the more chances oxygen in CO2, okay, it's the same exact standard 18 18 that you induce these switches, these mutations. protocol all over the research field. I never heard 19 19 Q. Can you cite for me any published data showing these that there's anyone culturing cancer cells in a 20 same or similar type of switches in cells that have 20 different environment than -- we have done many work 21 been exposed to any other substance, whether it's a 21 looking at the effect of hypoxia and hyperoxia on the 2.2 carcinogen or otherwise? 22 expression of these markers in normal cells. We have 23 A. If there is any other substance that induces mutations? 23 done several, I have published several publications. 24 Q. That induces the kinds of mutations that you report 24 Let me help you with this information. 25 25 Q. Let me withdraw the question, Doctor. You're going on here. Page 253 Page 251 1 A. In the literature, there are several, many substance 1 not answering my question. 2 2 that have been associated with certain mutations in the A. I'm trying. 3 3 Q. No, you're not answering my question. DNA, yes. 4 4 Q. Well, let me ask it a different way. Can you cite for A. I'm answering what I understood. 5 5 me any substance that has been shown to cause -- or Q. The tests you conducted, the experiments you conducted 6 strike that, let me back up. Is it your testimony that are higher oxygen levels than cells are exposed to in 7 7 vivo, correct? what you're reporting here -- that you're reporting 8 8 here that talc causes mutations in DNA in 72 hours? A. I'm trying to -- no, it's not, I'm trying to explain it 9 MS. O'DELL: Object to form. 9 to you. 10 10 THE WITNESS: My results indicates that if Q. They're not higher levels? 11 you treat cells with talcum powder for 72 hours and 11 A. What do you mean by in vivo? In blood? 12 Q. Cells inside the body. 12 look for whatever showed positive here, some showed 13 negative, that there is an induction of this specific 13 A. It's PO20, it's the same. 14 mutation in response to the treatment of talc. 14 Q. So the oxygen levels of the cells in the body are at 15 BY MR. HEGARTY: 15 the same level as the oxygen levels of the cells in 16 16 Q. Can you cite for me any other substance that's ever your cell --17 17 been reported to cause these kinds of mutations after MS. O'DELL: Objection. 18 THE WITNESS: No, I said the oxygen levels in 18 72 hours of treatment in cell cultures? 19 A. I cannot recall now. I'm sure I can find them. There 19 the circulation in vivo is the same as the oxygen level 20 are many in the literature, by the way, but I am citing 20 in the media where we culture cells. This is where we 21 21 you specifically my work that I have done in my get it from, not from a dream, we got it from there. 22 laboratory that was shown that when oxidative stresses 22 Now, if you're referring to the oxygen levels that 23 23 further -- increased and enhanced, we develop some of cells are exposed to in tissues --24 BY MR. HEGARTY: 24 these mutations, cell would acquire these mutations in 25 certain key pro-oxidants and anti-oxidant enzymes that Q. Yes.

	Page 254		Page 256
1	A. Nobody knows that. There's only one single report that	1	that why do your control cell lines have such high
2	says in a physiology book where I was a student at that	2	levels of Caspase?
3	time, they're saying 6 percent, 5 to 6 percent. But	3	A. So it is known, as we have previously published and all
4	that is inside the tissues without the circulation.	4	other researcher who was interested in this, that
5	Now, you have to remember all cells get food from	5	cancer cells have almost shut down their apoptosis,
6	circulation, so you will have eventually enough oxygen	6	because they have to increase their survival. So when
7	that you're getting for. So this is within my	7	you compare apoptosis of any cancer cell from any type,
8	expertise, I've done many, many work on this.	8	okay, you will find their apoptosis is way, way lower
9	Q. The glucose levels in your cell cultures are also	9	than normal cells. Normal cells, they have they
10	higher than what the cells would experience in the	10	divide, they die, they reproduce, all the times.
11	body, correct?	11	Cancer cells don't like to die, they love to survive,
12	A. The glucose level that we use in the media, again, is	12	so their apoptotic pathways are not normal.
13	standard with all of any researcher on the face of this	13	Q. So then what you're reporting here are as to control
14	earth use. It is standard accepted levels. So if you	14	cells, controls in ovarian cancer cells?
15	are trying to make that what we use is different than	15	A. No, no. The controls here are macrophages, it's normal
16	in vivo, it could be, but this is what agreed upon in	16	ovarian epithelial, and fallopian tube epithelial.
17	the research community.	17	Q. Why are your the Caspase levels higher in your
18	Q. Move to strike as nonresponsive. Listen to my	18	controls than in your talc treated cells?
19	question, Doctor. Are the glucose levels in cell	19	A. Maybe I missed the question. I just answered that,
20	cultures that you performed for purposes of your	20	right?
21	experiments higher than the glucose levels of the cells	21	Q. Well, I don't think you answered my question.
22	inside the body?	22	A. Well, let me try to understand what you want.
23	MS. O'DELL: Objection, form, asked and	23	Q. Well, the Figure 6 shows that the controls have higher
24	answered.	24	levels of Caspase-3 than the talc treated cells,
25	THE WITNESS: I don't know.	25	correct?
	Dama 255		Dama 257
_	Page 255		Page 257
1	BY MR. HEGARTY:	1	MS. O'DELL: Object to the form. Do you need
2	Q. Aren't the cells that you experiment with in a	2	to see that in color, Doctor? Would that help?
3	hyperglycemic state?	3	THE WITNESS: Yes, please.
4	A. I just told I don't know.	4	MS. O'DELL: (Handing.)
5	Q. Can high glucose levels cause an increase in reactive	5	THE WITNESS: So here, the control cells, so
6	oxygen species?	6	let's look at the normal cells okay, the normal
7	A. Okay, so	7	cells well, that's the whole idea, the whole
8	Q. Can they or can't they?	8	objective of this research, the whole point, that if
9			
1.0	MS. O'DELL: He gets to you asked the	9	you treat with talcum powder, talcum powder induces
10	question, he	10	you treat with talcum powder, talcum powder induces enhances oxidative stress that stimulate apoptosis
11	question, he THE WITNESS: There is no yes or no answer.	10 11	you treat with talcum powder, talcum powder induces enhances oxidative stress that stimulate apoptosis pathways and shut them down, inhibit them. So in the
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1			
1	Page 258		Page 260
	published previously that lower apoptosis in cancer	1	A. I believe we have published a different study with the
2	cells is due to overexpression of nitric oxide	2	same subject. You want me to look for it?
3	synthase, which is a pro-oxidant, and myeloperoxidase,	3	Q. Not right now.
4	which is another pro-oxidant, and they work together to	4	A. Okay, but we did publish that before.
5	nitrisolate Caspase-3, that's what we're measuring	5	Q. Did you measure changes in peroxide levels as part of
6	here, and shutting down its activity and its apoptosis.	6	your experiment?
7	Q. The type of SNP changes that you report in your	7	A. Excuse me, one more time.
8	manuscript can be detected by Sanger sequencing,	8	Q. Did you measure changes in peroxide levels as part of
9	correct?	9	your experiments?
10	A. Now, that's we're moving from this?	10	A. What is peroxide level?
11	Q. Yes.	11	Q. Hydrogen peroxide level.
12	A. Okay, sorry, I thought we were still here.	12	A. Oh, H2O2?
13	Q. Different question.	13	Q. Yes.
14	A. Okay. Give me a	14	A. Indirectly, yes.
15	Q. Can you answer my question?	15	Q. When you sat indirectly, what do you mean?
16	A. What's the question?	16	A. Because it's the substrate for an enzyme, so it's an
17	Q. The type of SNP changes that you report in your	17	enzymatic reaction.
18	manuscript can be detected by Sanger sequencing,	18	Q. Did you find any changes in hydrogen peroxide levels in
19	correct?	19	the talc treated cells?
20	A. Yes.	20	A. We didn't measure the actual H2O2 levels in these
21	Q. Did you use this method?	21	cells. We did measure the catalase activity that turns
22	A. No.	22	H2O2 to H2O, which is the turnover.
23	Q. Have you ever used Sanger sequencing to detect changes	23	Q. Have you ever measured hydrogen peroxide levels in
24	in SNPs or to analyze SNPs?	24	these types of studies?
25	A. You mean gene mutations?	25	A. Have I measured H2O2, I don't think so, directly,
	Page 259		
			Page 261
1	O. Gene mutations ves	1	Page 261
1 2	Q. Gene mutations, yes. A So the answer is nowadays no one does this from the	1 2	directly H2O2 levels, no.
2	A. So the answer is nowadays no one does this from the	2	directly H2O2 levels, no. Q. You've referred earlier to the fact that you have
2	A. So the answer is nowadays no one does this from the research community. There are core facilities, labs	2 3	directly H2O2 levels, no. Q. You've referred earlier to the fact that you have published abstracts that have talked about the results
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Page 262		Page 264
Q. The answer is that you did disclose?	1	specific.
A. I did disclose, yes.	2	Q. Are your opinions in this case premised on talc
Q. It's not included the disclosure's not included in	3	containing asbestos?
the abstracts, correct.	4	A. (Witness shakes head from side to side.) I don't know,
A. They don't have it like that, no.	5	no, my opinion has nothing to do with that.
Q. When you presented the abstracts, did this involve	6	Q. Are your opinions in any way based on talc having heavy
standing there in front of a poster?	7	metals in them?
A. Yes.	8	A. No.
Q. And did people come up and talk to you about your	9	Q. Is it your opinion that talc without asbestos or
posters?	10	without any other constituents can cause ovarian
A. Yes.	11	cancer?
Q. Did you identify yourself as an expert in litigation	12	A. The one that I got in this bottle from J & J, yes.
involving tale and ovarian cancer?	13	Q. Is it your opinion, Doctor, that your studies or your
MS. O'DELL: Object to the form.	14	experiments show that talc increases cellular
THE WITNESS: No one asked me.	15	proliferation and decreases apoptosis?
BY MR. HEGARTY:	16	A. I'm sorry, one more time, one more time.
	17	Q. Sure. Is it your opinions or is it your opinion that
	18	talc use increases cellular proliferation and decreases
	19	apoptosis in normal ovarian cells?
	20	A. My finding clearly indicates that if you treat cells
1	21	with talcum powder, the results of this treatment is a
	22	dose response increase in proliferation and decrease in
	23	apoptosis, yes.
	24	Q. In normal ovarian cells?
whole meeting.	25	A. In normal and in cancer cells.
Page 263		Page 265
BY MR_HEGARTY:	1	Q. Cell proliferation does not mean cancer, correct?
		A. Cell increase in cell proliferation beyond normal is
•		a highlight of cancer cells.
		Q. There is cell proliferation in normal cells in the
	5	absence of cancer, correct?
	6	A. So good question. So cell normal cells in response
	7	to agents can be temporally transit induces their
Q. Have you ever told anyone at the medical school, at	8	
		proliferation, but they come back. Cancer cells don't
	9	proliferation, but they come back. Cancer cells don't come back. They will proliferate forever.
Wayne State Medical School that talc use can cause		come back. They will proliferate forever.
	9	
Wayne State Medical School that talc use can cause ovarian cancer? A. I don't recall.	9	come back. They will proliferate forever. Q. But you agree that cell proliferation does not equate to cancer?
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	 Q. The answer is that you did disclose? A. I did disclose, yes. Q. It's not included the disclosure's not included in the abstracts, correct. A. They don't have it like that, no. Q. When you presented the abstracts, did this involve standing there in front of a poster? A. Yes. Q. And did people come up and talk to you about your posters? A. Yes. Q. Did you identify yourself as an expert in litigation involving talc and ovarian cancer? MS. O'DELL: Object to the form. THE WITNESS: No one asked me. BY MR. HEGARTY: Q. Did you tell them that you were? A. I didn't volunteer anything. Q. Have you provided your opinions in this case to anyone outside of plaintiff's counsel or your colleagues on the manuscript? MS. O'DELL: Object to the form. THE WITNESS: So you just asked me if I discussed this with people that I presented to in the whole meeting. Page 263 BY MR. HEGARTY: Q. Well, let me ask it a different way because I can see where you're confused. We talked about your opinions that talc can cause ovarian cancer. A. Oh, so we're going back here now? Q. Yes, we're going back to your opinions. A. Okay. 	Q. The answer is that you did disclose? A. I did disclose, yes. Q. It's not included the disclosure's not included in the abstracts, correct. A. They don't have it like that, no. Q. When you presented the abstracts, did this involve standing there in front of a poster? A. Yes. Q. And did people come up and talk to you about your posters? A. Yes. Q. Did you identify yourself as an expert in litigation involving talc and ovarian cancer? MS. O'DELL: Object to the form. THE WITNESS: No one asked me. BY MR. HEGARTY: Q. Did you tell them that you were? A. I didn't volunteer anything. Q. Have you provided your opinions in this case to anyone outside of plaintiff's counsel or your colleagues on the manuscript? MS. O'DELL: Object to the form. THE WITNESS: So you just asked me if I discussed this with people that I presented to in the whole meeting. Page 263 BY MR. HEGARTY: Q. Well, let me ask it a different way because I can see where you're confused. We talked about your opinions that talc can cause ovarian cancer. A. Oh, so we're going back to your opinions. A. Okay. 7

	Gliassali Sa	•	
	Page 266		Page 268
1	MS. O'DELL: Objection.	1	contaminant decrease in apoptosis is a hallmark of
2	THE WITNESS: I don't know if this okay,	2	ovarian cancer.
3	here's the question, so the answer is you expose cells,	3	BY MR. HEGARTY:
4	talcum powder, cells go crazy and they increase their	4	Q. Not my question, Doctor. My question was are there any
5	proliferation. If they don't come back, so that's the	5	studies showing that an increase in cell proliferation,
6	response to the acute, if they don't come back and	6	as you showed in your experiments, is associated with
7	there is talcum powder particles in there, and they	7	an increase in ovarian cancer risk?
8	keep provoking the inflammation, that transit goes into	8	MS. O'DELL: Object to the form, asked and
9	chronic inflammation. I'm trying to think of	9	answered.
10	simulation to in vivo, but in cell culture you cannot	10	THE WITNESS: Okay, so you're asking if there
11	tell.	11	are reports showing that there is the increased
12	BY MR. HEGARTY:	12	proliferation is associated with increased cancer risk?
13	Q. Can you cite for me any studies showing increase in	13	BY MR. HEGARTY:
14	cell proliferation in the presence of talc in vivo?	14	Q. Correct.
15	MS. O'DELL: Objection, form.	15	A. Okay, again, I'm answering, the answer is I don't know
16	THE WITNESS: Very complicated question,	16	because I believe that you cannot measure proliferation
17	break it down for me, please.	17	in vivo.
18	BY MR. HEGARTY:	18	Q. Are there any studies showing that a decrease in
19	Q. I don't know if I can break it down. Can you cite for	19	apoptosis, as you showed in your experiments, is
20	me any study showing an increase in cell proliferation	20	associated with an increase in ovarian cancer risk?
21	in the presence of talc in women using talc?	21	A. So I would respond the same way. I would say, again,
22	A. How would you measure	22	these to determine apoptosis, you have to isolate
23	MS. O'DELL: Objection.	23	the cells from the patient outside and do cell culture
24	THE WITNESS: How would you measure cell	24	and look into that, so I'm not aware.
25	proliferation in woman?	25	Q. Are there any studies showing either an increase in
	Page 267		Page 269
1	BY MR. HEGARTY:	1	cell proliferation or a decrease in apoptosis as you
2	Q. Well, I'm asking you if you're aware of any such	2	have shown in your report in women using tale?
3	studies?	3	MS. O'DELL: Object to the form.
4	A. I'm answering. I said how would you measure that? I'm	4	THE WITNESS: I'm not aware of that.
5	not aware, I don't know.	5	MR. HEGARTY: Why don't we take a break, go
6	Q. Are you aware of any studies showing a decrease in	6	off the record. I need to converse with counsel for
7	apoptosis in the cells of women using talc?	7	Imerys about how much time that he needs for his
8	A. Again, these studies only done in cell culture. You	8	questioning.
9	cannot do this in vivo. This has to be isolated from	9	MS. O'DELL: Okay.
10	the woman of ovarian cancer who use tale, who didn't	10	THE VIDEOGRAPHER: Going off the record at
11	use tale, and then you look at their cells in culture	11	5:04 p.m.
12	to determine those parameters. You cannot determine	12	(A short recess was taken.)
13	those in vivo. Although there are pathology they can	13	THE VIDEOGRAPHER: We're back on the record at
14 15	do, they can do proliferation markers like KI67, it's been done, it's all over, there are indications, but	14 15	5:26 p.m. BY MR. HEGARTY:
16	they cannot do this in vivo. This has been done in	16	Q. Doctor, in your cell experiments, how did you control
17	tissues. With woman, yes, you can do it, but to do	17	for cross-contamination?
18	that you have to isolate the cells and then look at the	18	MS. O'DELL: I'm sorry, I didn't hear, for
19	cell response.	19	cross-contamination?
20	Q. Are there any studies showing that an increase in cell	20	MR. HEGARTY: Yes.
21	proliferation, as you showed in your experiments, is	21	THE WITNESS: Cross-contamination, so cross-
22	associated with an increase in ovarian cancer risk?	22	contamination from each from the cells that I used?
23	MS. O'DELL: Object to the form.	23	BY MR. HEGARTY:
24	THE WITNESS: There are several studies that	24	Q. How did you control to keep from mixing up of samples?
25	shows that enhanced proliferation and reduce with	25	MS. O'DELL: Object to the form.

THE WITNESS: I'm not sure that I understood	_	
	1	There's two different controls, okay. We did negative
your question. Are you referring to mixing the two	2	and positive for the treatment, so this is with talc,
cell lines, for example?	3	this is with no talc. For the markers, for the
BY MR. HEGARTY:	4	markers, we have standards that with serial dilution
Q. Yes.	5	tells you exactly how much you expect to get in there.
A. With each other?	6	Q. Did you use a negative control in your cell studies
Q. Correct.	7	with a known inert substance?
A. That's not possible.	8	MS. O'DELL: Object to the form.
Q. Why is that not possible?	9	THE WITNESS: That's not a negative control
A. Because each cell line is done in one experiment	10	to me, it does not apply to my study. The only
treatment with all the doses on its own.	11	negative control that applies to my study is talc with
Q. What about mixing normal cells with the I'm sorry,	12	no talc.
how about mixing control cells with the treated cells,	13	BY MR. HEGARTY:
is that possible?	14	Q. How can you rule out in your studies that any
A. What do you mean by control cells, not treated?	15	particulate you added to the cell cultures would cause
Q. Not treated?	16	the same thing?
A. So, also, that's not possible because you we divide,	17	A. Again, we tested several fold. So our study does not
	18	qualify for a positive positive control that you're
	19	referring to or a negative negative control.
		Q. How are you able to rule out that glass beads wouldn't
		cause the same
- I		A. Glass beads?
• • • • • • • • • • • • • • • • • • • •		Q effect? How are you able to rule out that some
		inert part, other part strike that. How would you
Q. Do you know what positive and negative controls are in	25	rule out that any particle wouldn't cause the same
Page 271		Page 273
cell studies?	1	effect that you saw in your studies?
A. I do.	2	A. Very simple, the untreated didn't show that.
Q. You did not use positive and negative controls in your	3	Q. Well, how do you rule out that the treated cells would
cell studies, correct?	4	react the same way regardless of what you put on them?
A. Not correct.	5	In other words, if you put how did you rule out that
Q. Well, I'm going to define positive controls as applying	6	any particle would not cause the same thing if you
a known cancer causing substance to the cells. Is that	7	mixed it with DMSO and applied it to tale?
your understanding of positive control?	8	A. Yeah, so we did DMSO control.
A. Not in these studies.	9	MS. O'DELL: Object to the form.
Q. I'm talking about generally.	10	THE WITNESS: So we did took the talc,
A. Generally a positive control that something that you	11	mixed it with DMSO, took the DMSO, treat the cells with
know it's there and you're looking for it.	12	DMSO alone and with DMSO and talc. So if the effect
Q. What is in general terms a negative control?	13	was due to DMSO, you would see the response in the
A. A negative control, something you're not looking for,	14	untreated cells.
it is not there.	15	BY MR. HEGARTY:
Q. Well	16	Q. Would cornstarch cause the same result?
A. So there is negative negative and there is positive	17	A. I did not test it.
positive.	18	Q. How can you rule out that cornstarch wouldn't do the
Q. Did you do any of your tests I'm sorry, did you do	19	same thing if applied to cells?
any of your experiments using any substances known to	20	MS. O'DELL: Object to the form.
be a carcinogen?	21	THE WITNESS: I didn't rule anything, I did
A. One more time. I will answer you. The answer is no,	22	not test it.
okay, but you're referring to so there are two	23	BY MR. HEGARTY:
different controls, negative and positive for the	24	Q. Does cornstarch cause cancer?
target, and negative and positive for the treatment.	25	A. I did not test it.
	A. With each other? Q. Correct. A. That's not possible. Q. Why is that not possible? A. Because each cell line is done in one experiment treatment with all the doses on its own. Q. What about mixing normal cells with the I'm sorry, how about mixing control cells with the I'm sorry, how about mixing control cells with the treated cells, is that possible? A. What do you mean by control cells, not treated? Q. Not treated? A. So, also, that's not possible because you we divide, we grow the cells, one lot, one lot of cells, and then we aliquot, we put 1 million cells here, 1 ml cells here, and then we separate them and give the different doses for each cell lines. And the this thing, the treatment was repeated for PCR for RNA, for protein for ELISA, for proliferation assays, so it's not possible that there is a mix between treated and untreated. Q. Do you know what positive and negative controls are in Page 271 cell studies? A. I do. Q. You did not use positive and negative controls in your cell studies, correct? A. Not correct. Q. Well, I'm going to define positive controls as applying a known cancer causing substance to the cells. Is that your understanding of positive control? A. Not in these studies. Q. I'm talking about generally. A. Generally a positive control that something that you know it's there and you're looking for it. Q. What is in general terms a negative control? A. A negative control, something you're not looking for, it is not there. Q. Well A. So there is negative negative and there is positive positive. Q. Did you do any of your tests I'm sorry, did you do any of your experiments using any substances known to be a carcinogen? A. One more time. I will answer you. The answer is no, okay, but you're referring to so there are two	A. With each other? Q. Correct. A. That's not possible. Q. Why is that not possible? A. Because each cell line is done in one experiment treatment with all the doses on its own. Q. What about mixing normal cells with the I'm sorry, how about mixing control cells with the treated cells, is that possible? A. What do you mean by control cells, not treated? Q. Not treated? A. So, also, that's not possible because you we divide, we grow the cells, one lot, one lot of cells, and then we aliquot, we put 1 million cells here, 1 ml cells here, and then we separate them and give the different doses for each cell lines. And the this thing, the treatment was repeated for PCR for RNA, for protein for ELISA, for proliferation assays, so it's not possible that there is a mix between treated and untreated. Q. Do you know what positive and negative controls are in Page 271 cell studies? A. I do. Q. You did not use positive and negative controls in your cell studies, correct? A. Not correct. Q. Well, I'm going to define positive controls as applying a known cancer causing substance to the cells. Is that your understanding of positive control? A. Not in these studies. Q. I'm talking about generally. A. Generally a positive control that something that you know it's there and you're looking for it. Q. Well A. So there is negative negative and there is positive positive. Q. Well A. So there is negative negative and there is positive positive. Q. Did you do any of your tests I'm sorry, did you do any of your experiments using any substances known to be a carcinogen? A. One more time. I will answer you. The answer is no, okay, but you're referring to so there are two

	Page 274		Page 276
1	Q. Well, in your opinion, does	1	A. I didn't say I did not agree. I said I am not I
2	A. In my opinion?	2	don't have any molecular data in my laboratory to
3	Q. Yes.	3	support the direct effect of talcum powder on my
4	A. From my information? I don't think so.	4	markers that I studied in my lab, and I would like to
5	Q. Could you have tested cornstarch in the same way you	5	do that.
6	tested talc?	6	Q. When in relation to the first call that you had with
7	A. Could I have?	7	Miss Thompson did you agree to serve as a consultant
8	Q. Yes.	8	for Beasley Allen?
9	A. I can use my methodology to test that, yes, of course.	9	A. I think it was like October sometime.
10	Q. And are you able to say that no other particle exposed	10	Q. And in between the time of the first call and October,
11	in the same way that you would expose cells with talc	11	did you have any additional calls with anyone from
12	would not have caused the same result?	12	A. We had the meeting September 7, if I remember.
13	MS. O'DELL: Object to the form.	13	Q. At the time of that meeting, had you agreed to serve as
14	THE WITNESS: I already answered.	14	a consultant for Beasley Allen?
15	BY MR. HEGARTY:	15	A. I agreed in principle to serve as a consultant for what
16	Q. What's your answer?	16	I am an expert in, which is oxidative stress and
17	A. Okay, I'm saying that in this study, the way this	17	ovarian cancer, and I promised to run data, do some
18	study's designed to look at the effect with talc,	18	work, because I wanted to find out if there is
19	without talc, if you are looking at one marker only,	19	molecular evidence to support the effect of talcum
20	then maybe we should consider more, but we're looking	20	powder on the markers that I study, which are the
21	at several markers at several levels. So we're looking	21	markers of risk of ovarian cancer.
22	at mRNA DNA mRNA protein activity, several levels here.	22	Q. And you agreed to serve as a consultant, at least as to
23	Q. But you cannot say that cornstarch wouldn't do the same	23	oxidative stress and ovarian cancer, as of the time of
24	thing as talc did in your experiments?	24	the meeting in September?
25	A. I did not study cornstarch, so I cannot tell you.	25	MS. O'DELL: Object as to form.
1	Page 275 Q. We talked earlier at the beginning of the deposition	1	Page 277 THE WITNESS: I agreed to serve as a
1 2		1 2	
	Q. We talked earlier at the beginning of the deposition		THE WITNESS: I agreed to serve as a
2	Q. We talked earlier at the beginning of the deposition about you receiving a call from Miss Thompson, correct?	2	THE WITNESS: I agreed to serve as a consultant for oxidative stress and ovarian cancer in
2	Q. We talked earlier at the beginning of the deposition about you receiving a call from Miss Thompson, correct?A. Yes.	2	THE WITNESS: I agreed to serve as a consultant for oxidative stress and ovarian cancer in actually the first phone call.
2 3 4	Q. We talked earlier at the beginning of the deposition about you receiving a call from Miss Thompson, correct?A. Yes.Q. Do you know how she came to call you in the first	2 3 4	THE WITNESS: I agreed to serve as a consultant for oxidative stress and ovarian cancer in actually the first phone call. BY MR. HEGARTY:
2 3 4 5	Q. We talked earlier at the beginning of the deposition about you receiving a call from Miss Thompson, correct?A. Yes.Q. Do you know how she came to call you in the first place?	2 3 4 5	THE WITNESS: I agreed to serve as a consultant for oxidative stress and ovarian cancer in actually the first phone call. BY MR. HEGARTY: Q. With regard to your work in this litigation, have you reviewed any of the expert reports of any other experts designated by plaintiffs?
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	Page 278		Page 280
1	correct?	1	and ovarian cancer for purposes of developing your
2	A. Correct.	2	opinions in this case?
3	Q. Yes. I'm going to mark this Exhibit Number 18.	3	A. To my best knowledge, yes, only like three papers out
4	SAED DEPOSITION EXHIBIT NUMBER 18,	4	there.
5	CURRICULUM VITAE,	5	Q. I'm sorry?
6	WAS MARKED BY THE REPORTER	6	A. There are only like three papers out there that I can
7	FOR IDENTIFICATION	7	remember.
8	BY MR. HEGARTY:	8	Q. Did you do a search yourself for literature concerning
9	Q. The CV you brought with you today, is that your current	9	talc and ovarian cancer?
10	curriculum vitae?	10	A. Yes.
11	A. Yes.	11	Q. What search engines or tools did you use?
12	Q. Okay. Thank you. You don't treat ovarian cancer	12	A. I used what I always use, the PopMed.
13	patients, correct?	13	Q. You say in your report that an enhanced redox state has
14	A. I am not an M.D., I'm not a medical doctor.	14	been described with epithelial ovarian cancer.
15	Q. Do you teach any courses?	15	A. I'm sorry, one more time.
16	A. In the university, yes.	16	Q. Is it your opinion that an enhanced redox state has
17	Q. What courses do you teach?	17	been described in patients with epithelial ovarian
18	A. They are listed here in my CV.	18	cancer?
19	Q. Listed in your CV?	19	A. With ovarian cancer patients, yes.
20	A. Yes.	20	Q. And enhanced redox state has been described with other
21	Q. Do you teach medical students?	21	types of cancer, too, correct? It's not unique to
22	A. I do.	22	ovarian cancer?
23	Q. Those would be listed in your CV?	23	A. Okay, I don't know about other cancer, that's not my
24	A. Everything I teach is listed here.	24	what I do. What I do, what I talk about, what I work
25	Q. What percentage of your time is spent teaching?	25	with is ovarian cancer. So we did work in my lab only
	Page 279		Page 281
1	A. Okay, so we have two types of teaching in our	1	with ovarian cancer and these markers.
2	institution they consider teaching. We have formal	2	Q. Has an enhanced redox state been described with other
3	courses and then we have hands-on teaching, which is	3	diseases besides cancer?
4	required for our residency program and fellowship	4	A. One more time, please.
5	program. I do more of the hands-on for the medical	5	MG OIDELL OI: 44 C
)	MS. O'DELL: Object to form.
6	doctors for our residents and fellows in the	6	MS. O'DELL: Object to form. BY MR. HEGARTY:
6 7	doctors for our residents and fellows in the department, then I help them write their thesis, design		•
		6	BY MR. HEGARTY:
7	department, then I help them write their thesis, design	6 7	BY MR. HEGARTY: Q. Has an enhanced redox state been described with
7 8	department, then I help them write their thesis, design their experiments, do the work, so that's my primary	6 7 8	BY MR. HEGARTY: Q. Has an enhanced redox state been described with diseases other than cancer? A. I don't know.
7 8 9	department, then I help them write their thesis, design their experiments, do the work, so that's my primary I spend almost significant time. I can't tell you	6 7 8 9	BY MR. HEGARTY: Q. Has an enhanced redox state been described with diseases other than cancer?
7 8 9 10	department, then I help them write their thesis, design their experiments, do the work, so that's my primary I spend almost significant time. I can't tell you exactly what I spend on that part, but I do.	6 7 8 9 10	BY MR. HEGARTY: Q. Has an enhanced redox state been described with diseases other than cancer? A. I don't know. Q. You have done research looking at that pathogenesis of
7 8 9 10 11	department, then I help them write their thesis, design their experiments, do the work, so that's my primary I spend almost significant time. I can't tell you exactly what I spend on that part, but I do. Q. Have you applied to be a full professor at Wayne State	6 7 8 9 10 11	BY MR. HEGARTY: Q. Has an enhanced redox state been described with diseases other than cancer? A. I don't know. Q. You have done research looking at that pathogenesis of tissue fibrosis, correct?
7 8 9 10 11 12	department, then I help them write their thesis, design their experiments, do the work, so that's my primary I spend almost significant time. I can't tell you exactly what I spend on that part, but I do. Q. Have you applied to be a full professor at Wayne State University?	6 7 8 9 10 11 12	BY MR. HEGARTY: Q. Has an enhanced redox state been described with diseases other than cancer? A. I don't know. Q. You have done research looking at that pathogenesis of tissue fibrosis, correct? A. Correct.
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7 8 9 10 11 12 13 14	department, then I help them write their thesis, design their experiments, do the work, so that's my primary I spend almost significant time. I can't tell you exactly what I spend on that part, but I do. Q. Have you applied to be a full professor at Wayne State University? A. No. Q. Why not? A. Applying for a full professor at our institution	6 7 8 9 10 11 12 13 14	BY MR. HEGARTY: Q. Has an enhanced redox state been described with diseases other than cancer? A. I don't know. Q. You have done research looking at that pathogenesis of tissue fibrosis, correct? A. Correct. Q. Tissue fibrosis does not increase the risk of developing cancer, correct? A. Not correct.
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Page 282		Page 284
in my mind, which is which started this whole focus	1	postoperative adhesions development may develop into
of work, why, how come we have an overgrowth that is	2	cancer. I'm not aware of that.
has similar pathogenesis, yet it's not malignant, for	3	BY MR. KLATT:
example, fibroids, they're benign tumors, they're	4	Q. You're not aware of any evidence of that, is that what
tumors, they're benign, what is the difference between	5	you're saying?
what makes this tumor benign versus malignant? So this	6	A. I'm not aware of a certain a specific situation
is my focus and my long-term interest in my life is to	7	where a patient developed postoperative adhesions, that
figure out why is this overgrowth that has oxidative	8	postoperative adhesions causes some type of cancer
	9	somewhere.
	10	Q. I'm going to skip around just to follow up on some
		stuff that Mr. Hegarty brought up during the day. You
•		mentioned your company DS Biotech this morning. What
•		does DS stand for?
		A. A name I chose.
		Q. The D and the S don't stand for anything in particular?
•		A. Oh, sorry, I missed the question. So D is Diamond Saed
		Biotech, that's my partner, used to be long time ago.
•		Q. You had a partner named Diamond?
, ,		A. Michael Diamond. When we first initiated this, we
		started it, but then he moved from my institution to
· · · · · · · · · · · · · · · · · · ·		his institution, and then I acquired the whole company.
•		Q. So Dr. Diamond is it a Dr. Diamond?
		A. Dr. Diamond, yes.
• • •		Q. He has no affiliation with DS Biotech any longer, is that true?
cancer.	25	mat true?
Page 283		Page 285
A. Keloids, fibroblastoma can develop, endometriosis can	1	A. No, for the last even seven, eight years.
•	2	Q. When's the last time you had an NIH NCI grant?
two.	3	A. It should be in my CV, really bad memory, although I
Q. Do postoperative adhesions cause cancer?	4	should remember such a great thing. You want me to
A. We don't know.	5	look for it?
Q. Doctor, I'm going to rest for a moment and let my	6	Q. How long's it going to take you?
colleague representing Imerys ask you some questions as	7	A. I don't know, I have to look in my list of grants
well.	8	when was it, when was it do you want me to
EXAMINATION BY MR. KLATT:	9	approximate?
Q. Hello, Dr. Saed. My name is Mike Klatt and I represent	10	Q. Sure.
Imerys Talc America in this case. Have you ever heard	11	A. NIH I think it's 2005 pending, submitted
of Imerys Talc America before today?	12	previously funded, okay, here we go. So I was part of
A. Heard on the news, yes.	13	the I was co-principal investigator in the Wayne
O I'm corry?	14	State University partnership to promote diversity for
Q. Thi sorry:		71 1 1
A. Heard about it, yes.	15	reproductive sciences, that was 3,020,000 something. I
•		
A. Heard about it, yes.	15	reproductive sciences, that was 3,020,000 something. I
A. Heard about it, yes.Q. What do you know about Imerys?	15 16	reproductive sciences, that was 3,020,000 something. I was a co-investigator with Dr. Michael Diamond as a
A. Heard about it, yes.Q. What do you know about Imerys?A. I know that very small thing, mining company.	15 16 17	reproductive sciences, that was 3,020,000 something. I was a co-investigator with Dr. Michael Diamond as a principal investigator to this Wayne State Clinical
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 A. Heard about it, yes. Q. What do you know about Imerys? A. I know that very small thing, mining company. Q. How did you learn that? A. From the news. Q. You said just a minute ago that we don't know whether 	15 16 17 18 19 20	reproductive sciences, that was 3,020,000 something. I was a co-investigator with Dr. Michael Diamond as a principal investigator to this Wayne State Clinical Translational Science Award. Q. What year is the question? A. So there are many, 2015, 2012, 2012, 2012, this was the
 A. Heard about it, yes. Q. What do you know about Imerys? A. I know that very small thing, mining company. Q. How did you learn that? A. From the news. Q. You said just a minute ago that we don't know whether postoperative intra-abdominal adhesions cause cancer; 	15 16 17 18 19 20 21	reproductive sciences, that was 3,020,000 something. I was a co-investigator with Dr. Michael Diamond as a principal investigator to this Wayne State Clinical Translational Science Award. Q. What year is the question? A. So there are many, 2015, 2012, 2012, 2012, this was the major one where I was the principal investigator
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_	in my mind, which is which started this whole focus of work, why, how come we have an overgrowth that is has similar pathogenesis, yet it's not malignant, for example, fibroids, they're benign tumors, they're tumors, they're benign, what is the difference between what makes this tumor benign versus malignant? So this is my focus and my long-term interest in my life is to figure out why is this overgrowth that has oxidative stress, high this, high this, high this, but it's not malignant, fibroids, possibility of adhesions, keloids, although some keloids develop some fibrosis development of cancer, and endometriosis, for example. So that's the question that I'm really interested in. So that's why we look everything in comparison. I have published in here and I have published in here extensively. Q. You have published that fibrosis causes cancer? A. No, I have published that the process of fibrosis is very similar to the process of oncogenesis. Q. Does fibrosis cause cancer? MS. O'DELL: Object to form. THE WITNESS: In some cases it may. BY MR. HEGARTY: Q. Give me an example of a type of fibrosis that can cause cancer. Page 283 A. Keloids, fibroblastoma can develop, endometriosis can induce maybe ovarian cancer, there's a link between the two. Q. Do postoperative adhesions cause cancer? A. We don't know. Q. Doctor, I'm going to rest for a moment and let my colleague representing Imerys ask you some questions as well. EXAMINATION BY MR. KLATT: Q. Hello, Dr. Saed. My name is Mike Klatt and I represent Imerys Talc America in this case. Have you ever heard of Imerys Talc America before today? A. Heard on the news, yes.	in my mind, which is which started this whole focus of work, why, how come we have an overgrowth that is has similar pathogenesis, yet it's not malignant, for example, fibroids, they're benign tumors, they're tumors, they're benign, what is the difference between what makes this tumor benign versus malignant? So this is my focus and my long-term interest in my life is to figure out why is this overgrowth that has oxidative stress, high this, high this, high this, but it's not malignant, fibroids, possibility of adhesions, keloids, although some keloids develop some fibrosis development of cancer, and endometriosis, for example. So that's the question that I'm really interested in. So that's why we look everything in comparison. I have published in here and I have published in here extensively. Q. You have published that fibrosis causes cancer? A. No, I have published that the process of fibrosis is very similar to the process of oncogenesis. Q. Does fibrosis cause cancer? MS. O'DELL: Object to form. THE WITNESS: In some cases it may. BY MR. HEGARTY: Q. Give me an example of a type of fibrosis that can cause cancer. Page 283 A. Keloids, fibroblastoma can develop, endometriosis can induce maybe ovarian cancer, there's a link between the two. Q. Do postoperative adhesions cause cancer? A. We don't know. Q. Doctor, I'm going to rest for a moment and let my colleague representing Imerys ask you some questions as well. EXAMINATION BY MR. KLATT: Q. Hello, Dr. Saed. My name is Mike Klatt and I represent Imerys Talc America in this case. Have you ever heard of Imerys Talc America before today?

	Page 286		Page 288
1	Q. Can ovulation cause the DNA damage that results in	1	A. Not correct.
2	ovarian cancer?	2	Q. You don't know that?
3	A. You are asking my opinion?	3	MS. O'DELL: Object to the form.
4	Q. Yes.	4	THE WITNESS: It's a theory; I just answered
5	A. Or my based on science?	5	you.
6	Q. Well, I hope your opinion's based on science, but what	6	BY MR. KLATT:
7	is your opinion?	7	Q. Are you aware of the data that lifetime ovulations is
8	A. Okay. So ovulation theory has been there for a long	8	directly related to ovarian cancer risk?
9	time, and I don't know if there is a link between	9	MS. O'DELL: Object to the form.
10	ovulation and damage to DNA particular to that.	10	THE WITNESS: So do you mean that there are
11	Q. Is ovulation an inflammatory event?	11	data out there that is showing a direct link to normal
12	A. It is.	12	ovulation process and the development increased risk
13	Q. And in a woman that has a normal reproductive life,	13	of getting ovarian cancer?
14	that can occur 2, 400 times in her lifetime, correct?	14	BY MR. KLATT:
15	A. I am not a reproductive scientist.	15	Q. Thank you.
16	Q. You don't know?	16	MR. LAPINSKI: Doctor, was that an answer or
17	A. I don't know.	17	a question?
18	Q. Woman that has a 40-year reproductive life times 12?	18	THE WITNESS: That was a question to you.
19	A. I do know that.	19	BY MR. KLATT:
20	Q. That's 480 ovulatory cycles, correct?	20	Q. Well, I'm asking the questions, you're giving me the
21	A. If you say so, I don't know.	21	answers. Are you aware of data that increased number
22	Q. You don't know about this?	22	of lifetime ovulations increases ovarian cancer risk?
23 24	A. I do know	23	MS. O'DELL: Object to the form.
25	MS. O'DELL: Object to the form. THE WITNESS: Excuse me, okay, I am not	25	THE WITNESS: And then I answered you, I answered you, if you mean that you're looking for
25	THE WITNESS. Excuse the, okay, I aill not	25	answered you, if you mean that you're looking for
	Page 287		Page 289
1	again, I am not a reproductive scientist, so I know as	1	specific data that linking normal ovulation to
2	much as anybody know, like ovulation, yes, I do know	2	inflammation that causes or increases the risk of
3	about it, I know about the ovulation theory, I know	3	ovarian cancer, is that what you mean?
4	that ovulation is cause of inflammation, I do know all	4	BY MR. KLATT:
5	that.		
	mat.	5	Q. I'm simply asking you if you're aware of data that
6	BY MR. HEGARTY:	5 6	Q. I'm simply asking you if you're aware of data that number of lifetime or of ovulations correlates with
6 7			
	BY MR. HEGARTY: Q. And is it your opinion, as a scientist who studied in the field you studied, that ovulation can cause ovarian	6	number of lifetime or of ovulations correlates with increased ovarian cancer risk; that's all I'm asking. A. My answer again, I'm aware that this is a theory, and I
7	BY MR. HEGARTY: Q. And is it your opinion, as a scientist who studied in	6 7	number of lifetime or of ovulations correlates with increased ovarian cancer risk; that's all I'm asking. A. My answer again, I'm aware that this is a theory, and I don't know if it's based on data.
7 8	BY MR. HEGARTY: Q. And is it your opinion, as a scientist who studied in the field you studied, that ovulation can cause ovarian cancer? A. I don't know, it needs to be tested.	6 7 8 9 10	number of lifetime or of ovulations correlates with increased ovarian cancer risk; that's all I'm asking. A. My answer again, I'm aware that this is a theory, and I don't know if it's based on data. Q. Is the mechanism that causes post-surgical adhesions
7 8 9	BY MR. HEGARTY: Q. And is it your opinion, as a scientist who studied in the field you studied, that ovulation can cause ovarian cancer? A. I don't know, it needs to be tested. Q. Even though it's an inflammatory event that occurs	6 7 8 9	number of lifetime or of ovulations correlates with increased ovarian cancer risk; that's all I'm asking. A. My answer again, I'm aware that this is a theory, and I don't know if it's based on data. Q. Is the mechanism that causes post-surgical adhesions the same mechanism that you think can result in ovarian
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7 8 9 10 11 12 13	BY MR. HEGARTY: Q. And is it your opinion, as a scientist who studied in the field you studied, that ovulation can cause ovarian cancer? A. I don't know, it needs to be tested. Q. Even though it's an inflammatory event that occurs every month, correct? A. Maybe that's a natural inflammatory response. Q. But you don't know, one way or the other, correct?	6 7 8 9 10 11 12 13	number of lifetime or of ovulations correlates with increased ovarian cancer risk; that's all I'm asking. A. My answer again, I'm aware that this is a theory, and I don't know if it's based on data. Q. Is the mechanism that causes post-surgical adhesions the same mechanism that you think can result in ovarian cancer? A. No, they have similarities but not the same. Q. Can oxidative stress be induced by low vitamin E?
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	Page 290		Page 292
1	that right?	1	Q. And in the lower right-hand corner there's two page
2	A. Correct.	2	numbers. One's a stamped page number that we call a
3	Q. Early this morning you said that high, very high doses	3	Bates Number, and the other is a handwritten page
4	of talc were toxic to cells. What did you mean by	4	number, correct?
5	that?	5	A. This and this? Yes.
6	A. We tried 1,000 micrograms per ml, 1,000 micrograms per	6	MS. O'DELL: Yes.
7	ml, induced toxicity, so decreased viability, yes.	7	BY MR. KLATT:
8	Q. How are you defining toxicity at this time?	8	Q. When were those handwritten page numbers added to the
9	A. Decreases cell viability.	9	lab book?
10	Q. Does that mean decrease in cell number?	10	A. I don't know.
11	A. No, I said cell viability.	11	Q. Because we had gotten a black and white copy of the lab
12	Q. What does that mean?	12	book, and there were no page numbers on it, so were
13	A. Death.	13	they added recently?
14	Q. Okay.	14	A. No, definitely not. They should have them, you should
15	A. Okay.	15	have them in your black, white and black.
16	Q. Do you agree with me that CA-125 levels can be	16	Q. Would you look at Exhibit 1 handwritten Page 31 Bates
17	increased or elevated by pregnancy?	17	Number, and I'll just say the last two Bates Numbers
18	A. I don't know this information.	18	02.
19	Q. Can CA-125 levels be increased during the menstrual	19	A. Page 2, you said?
20	period?	20	Q. Yes, Page 02 is the stamp number and Page 31
21	A. I am not an OB-GYN oncologist, I am not an expert in	21	A. Yes.
22	this. I defer this to a clinician.	22 23	Q is the handwritten number.
23	Q. Can CA-125 levels be increased by women who have	23	A. I'm looking at it.
24	uterine fibroids?	24	Q. Down at the bottom it says cells doubled in one day. What's that referring to?
25	A. Again, I gave you my answer.	23	what's that referring to:
	Page 291		Page 293
1	Q. Can CA-125 be increased by coronary heart disease?	1	
_		1 +	A. Okay, so when you culture the cells, you want to get
2	A. I don't know.	2	 A. Okay, so when you culture the cells, you want to get cells divide and they double, so you want to have them
3	The state of the s		
	A. I don't know.	2	cells divide and they double, so you want to have them
3	A. I don't know. Q. Can you look at Exhibit Number 1, please, which I	2	cells divide and they double, so you want to have them in the stage that's just a notation that the cell
3 4	A. I don't know.Q. Can you look at Exhibit Number 1, please, which I believe is the copy of your lab book.	2 3 4	cells divide and they double, so you want to have them in the stage that's just a notation that the cell doubled so we can start the experiment.
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	5 004		D 006
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1	proliferation using a hemocytometer?	1	A. Oh, that's a different question. I thought you were
2	A. Okay, for cell proliferation we use MTT assay, that's	2	talking about the sample ID refers to what. That's my
3	even more accurate than what you're referring to, but	3	answer.
4	we always count cells with hemocytometer to start with	4	Q. I'm talking about in your experiment.
5	1 million cells, this is how we start.	5	A. In my experiment, we took like, for example, normal
6	Q. But did you try to measure cell proliferation in your	6	macrophages from one plate, and we divided that into
7	experiments by using a hemocytometer in cell counting?	7	two. One plate got treatment, the other plate no
8	A. Cell proliferation cannot be measured by cell count.	8	treatment. And then we continue, we isolated RNA.
9	Q. Would you agree with me that MTT is not the optimal	9	Q. So for, for example, let's take Sample ID 357, EL1 5
10	method to measure cell proliferation?	10	micrograms of talc?
11	A. It is one of the best methods we have tested.	11 12	A. Yes.
12 13	Q. It simply measures cell metabolism, doesn't it?		Q. That was on one plate?
14	A. It measures the it differentiates between cells, cells that incorporate the dye versus cells that it	13 14	A. Okay, let me explain this one more time. So you take this is the stock samples, we call it 356,
15	doesn't incorporate the dye, which means it	15	okay. We split that into we take we can
16	differentiates between viable cells and proliferative	16	that's why when you said one plate, it's not true,
17	cells.	17	because we take one, two, three, four plates, okay, so
18	Q. And if you increase the metabolism of a certain number	18	each plate will get the treatment like 5 micrograms, 20
19	of cells, that will increase the dye level even if you	19	micrograms, 100 micrograms.
20	don't have a greater number of cells?	20	Q. I understand that. I'm just talking about Sample 357?
21	A. I don't know about metabolism that you're throwing in	21	A. 357 is 1 million cells of macrophages treated with 5
22	here.	22	microgram per ml of talc.
23	Q. You don't know about that?	23	Q. And it was one plate?
24	A. No.	24	A. 1 million cells, one plate.
25	Q. Can you look again, referring to Exhibit 1, and I'm	25	Q. And then from that you took mRNA, correct?
	Page 295		Page 297
1	referring to the Bates Stamped page that ends in the	1	A. Correct.
2	stamp number is 03 and the handwritten Page 32.	2	Q. And then from the mRNA from that one plate of cells,
3	A. Yes.	3	you took or created CDNA, correct?
4	Q. And there's a list there of sample IDs, is that	4	A. Correct.
5	correct?	5	Q. And then at the end of the day, you measured that CDNA
6	A. Correct.	6	three separate times, correct?
7	Q. And are those the cell lines that you tested in your	7	A. Correct.
8	experiments?	8	Q. And from the process I just described, that all
9	A. Yes, in this experiment.	9	originated for 357 from that one plate that was treated
10	Q. And I want to make sure I understand, for each sample	10	with 5 micrograms of talc, correct?
11	ID, let's just take the first one Sample ID 356, the	11	A. One plate, yes.
12	EL1 untreated, so would that sample represent one plate	12	Q. And did you do that for each of the cell lines listed
13	of those cells?	13	Samples 356 through 386?
14	A. The 356?	14	A. Yes, let me explain something here. So we
15	Q. Right?	15	Q. That's all I needed.
16	A. It represents an aliquot of normal macrophages with no	16	A. Okay. Can I explain something?
17	treatment with talc.	17	Q. Sure.
18	Q. And is it one plate of cells?	18	A. So I know what you're referring to that this is called
19	A. It could be one if we need or two or three or four,	19	N = 1, but we have even better and more precise way of
20	depends on	20	measuring this very old method of doing it. We chose
20	O What was it in this assa?	21	to do instead of repeat the same one three times, so
21	Q. What was it in this case?	22	N = 3 we actually chose three different normal calls
21 22	A. Any sample that carry this number is a normal	22	N = 3, we actually chose three different normal cells
21 22 23	A. Any sample that carry this number is a normal macrophages, you can have it in one plate, two plates,	23	and three different ovarian cancer cells, and that is
21 22	A. Any sample that carry this number is a normal		•

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1	MR. LOCKE: Can I just make an objection.	1	Q. The major source of ROS comes from inside the cells
2	Those are the kind of answers that your counsel can ask	2	from mitochondria, correct?
3	you the question so you can give an explanation. All	3	A. Not accurate answer, no.
4	of the defendants don't have time to question you, so	4	Q. Can you distinguish between ROS produced inside the
5	"yes" or "no" would be helpful, particularly at this	5	mitochondria of the cell from ROS produced outside the
6	point where we're really running out of time.	6	cell?
7	MS. O'DELL: Well, he's been asking specific	7	A. There are some enzymes that are produced from the
8	questions about plates, and for it not to be clear, and	8	mitochondria like SOD in different forms, and there are
9	he needs to he needs to give a responsive answer.	9	SODs that are produced from the membrane of the cell
10	MR. LOCKE: We're wasting time.	10	and the cytoplasm, so it depends.
11	BY MR. KLATT:	11	Q. Do you agree that the persistent generation of cellular
12	Q. What I want to know is for 357 and all the sample IDs	12	ROS is a consequence of aging?
13	listed here, there was one individual plate for each	13	A. I didn't study aging.
14	sample ID treated with a certain level of talc,	14	Q. You haven't said that before?
15	correct?	15	A. That
16	A. Correct.	16	Q. The persistent generation of cellular ROS is a
17	O. Easy, Doctor.	17	consequence of aging.
18	A. Thank you.	18	A. I don't remember. Aging of the cells or aging of
19	Q. Gene expression, measuring gene expression is not the	19	people?
20	same thing as measuring gene mutations, correct?	20	Q. Aging of people.
21	A. Gene expression refers to mRNA levels that is reflected	21	A. I don't remember I said that.
22	in protein levels.	22	Q. You didn't sequence the DNA in your studies to
23	Q. Gene expression is something that occurs all the time	23	determine mutations, correct? You only used the SNP
24	in our bodies every day, correct?	24	gene assay?
25	A. Correct.	25	A. I used the SNP gene assay, yes.
			The Tuesda and State gene assay, yes.
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1	Q. It's how we live as people, right?	1	Q. You realize the same company that made the SNP gene
2	A. Yes.	2	assay that you used also makes a gene mutation assay?
3	Q. If we didn't have gene expression, we'd be dead?	3	A. No, I'm not aware of that.
4	A. I don't know why you're saying that.	4	Q. You're not aware of that?
5	Q. Is it true?	5	A. No.
6	A. Of course.	6	Q. But so, therefore, you did not use that company's gene
7	Q. You would agree with me that a reactive oxygen species,	7	mutation assay in your experiments, correct?
8	and can we call that ROS for short, Doctor?	8	MS. O'DELL: Object to the form.
9	A. Yes, I'm thinking, reactive oxygen and reactive	9	THE WITNESS: I used the core facility at our
10	nitrogen species, let's call them oxidants.	10	institutions, and this is what they ran and this is
11	Q. I'm sorry?	11	what I have.
12	A. Oxidants.	12	BY MR. KLATT:
13	Q. Oxidants? Well, what if I'm specifically asking about	13	Q. So you did not use the gene mutation assay made by the
14	ROS, reactive oxygen	14	same company that makes the SNP assay that you used in
15	A. You can, it depends on which one you would specify I	15	your studies, correct?
16	would answer, yes.	16	MS. O'DELL: Object to the form.
17	Q. Okay. So if I say ROS, can we agree I'm talking about	17	THE WITNESS: The core facility ordered the
18	reactive oxygen species?	18	kits, and they are the one who choose which company to
19	A. Yes. Which one, though? You have to tell me.	19	buy it from. I have no influence in that.
20	Q. As a category.	20	BY MR. KLATT:
	A. Okay, keep going.	21	Q. So was the core facility the one that decided to use
21	O DOS	22	the SNP assay rather than the gene mutation assay or
21 22	Q. ROS aren't the same thing as inflammation, correct?		
	A. Not correct.	23	was that your decision?
22	-		was that your decision? A. That was what is available in the core facility, and I

	7. 200		D 204
	Page 302		Page 304
1	Q. But you were unaware that the same company that makes	1	A. Saying it, I don't recall saying it.
2	the SNP assay also makes a gene mutation assay; is that	2	Q. Do you recall writing it?
3	true?	3	A. Maybe, but that does not agree with what you just said,
4	MS. O'DELL: Object to the form.	4	what you read.
5	THE WITNESS: I don't even know what company	5	Q. Can oxidative stress both promote apoptosis and promote
6	you're talking about.	6	cell survival?
7	BY MR. KLATT:	7	A. Oxidative stress is a balance, so it's not just simple
8	Q. Do you know what company made the SNP assay?	8	process. So the outcome of this balance promote
9	A. The core facility ordered the SNP kit, they just give	9	proliferation, promote survival, and decrease
10	you I'm interested in doing the SNP mutation and	10	apoptosis.
11	this is what we run, so please run these samples for	11	Q. Can oxidative stress be both pro-tumorigenic and
12	me.	12	anti-tumorigenic?
13	Q. Did you ask them not to use a gene mutation assay?	13	A. You mean marker, some certain markers of oxidative
14	A. Not to use? I didn't ask them, no.	14	stress? Is that what you're referring to?
15	Q. Would you agree with me that the determination of the	15	Q. Sure.
16 17	redox state of a cell is determined by far more enzymes	16	A. Certain markers of oxidative stress can have can
18	and proteins and substances than just the ones you looked at in your tale studies?	17	induce tumors and can inhibit tumor, I'm not really aware of that.
19	MS. O'DELL: Object to the form.	18	
20	THE WITNESS: We in my studies we looked	19 20	Q. Are you aware of any study case report or case series
21	at there are many enzymes, but we're looking at key	21	that says that women that use talc in the external
22	enzymes that control the redox balance.	21	genital area have increased fibrosis or adhesions
23	BY MR. KLATT:	23	anywhere in their reproductive tract?
24	Q. Object, nonresponsive. Do you agree with me that redox	24	MS. O'DELL: Object to the form. THE WITNESS: Have I am I aware of people
25	balance in cells is controlled by far more enzymes,	25	use talcum powder is linked to development of
	calance in cone is contacted by fair more carryines,	23	use tateum powder is mixed to development of
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1			
	proteins, and substances than you looked at in your	1	possibility of adhesions?
2	proteins, and substances than you looked at in your talc studies?	1 2	possibility of adhesions? BY MR. KLATT:
	tale studies?		
2		2	BY MR. KLATT:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. O'DELL: Object to the form. THE WITNESS: And I answered. I said these the one we looked at are the main, there are others, but they're not major players. Those are, the one we studied are the major contributor to the overall pro-oxidant state of the cell. BY MR. KLATT: Q. And some of those enzymes in some cancers are protumorigenic and some of those same enzymes in other cancers are anti-tumorigenic, correct? A. I'm not aware of that. Q. You haven't said that before? A. Said that exact word? No. Q. Do you recall ever saying this: Decreasing oxidative stress and increased SOD promotes apoptosis in the cancer cell lines studied, but multiple other studies performed using other cell lines have shown the opposite, that decreased SOD can promote apoptosis? MS. O'DELL: Object to the form. THE WITNESS: So this I said that? Or you took this from my	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. KLATT: Q. I'm asking you a very specific question. Are you aware of any articles in the medical or scientific literature, any case studies, any case reports of women who used external tale having increased adhesions, fibrosis, granulomas anywhere in their reproductive tract? MS. O'DELL: Object to the form. THE WITNESS: What do you mean by external? BY MR. KLATT: Q. What does external mean to you? A. I'm asking you. Q. I'm asking the questions, Doctor. A. Okay, I understand, I just want to clarify. Q. Do you understand what external tale application means? MS. O'DELL: You didn't say that, you just said external, so, anyway. If you understand his question, answer the question or define what you mean. BY MR. KLATT: Q. Let me ask the question again. Are you aware of any study in the medical or scientific literature, case

	Page 306		Page 308
1	adhesions anywhere inside the female reproductive	1	look and see if I have any other notes.
2	tract?	2	THE VIDEOGRAPHER: Going off the record at
3	MS. O'DELL: Object to the form.	3	6:18 p.m.
4	THE WITNESS: I'm not aware.	4	(An off-the-record discussion was held.)
5	BY MR. KLATT:	5	THE VIDEOGRAPHER: Back on the record at 6:19
6	Q. Are you aware that according to studies, anywhere from	6	p.m.
7	30 to 50 percent of U.S. women have used talc in the	7	BY MR. KLATT:
8	external genital area?	8	Q. Doctor, in your PCR studies, did you normalize for
9	A. I'm sorry, say that again, sorry.	9	actin?
10	Q. Are you aware from studies that anywhere from 30 to 50	10	A. Yes.
11	percent of U.S. women have used talcum powder in the	11	Q. And how did you do that?
12	external genital area?	12	A. So we did PCR for beta-actin.
13	A. I'm not sure about the number.	13	Q. And where is that indicated in your lab
14	Q. Are you aware of any epidemic of granulomas, fibrosis,	14	A. It is page every experiment we did with PCR we ran
15	or adhesions in women who use externally applied	15	beta-actin, and if you go to Page what's this page
16	genital talc?	16	here
17	MS. O'DELL: Object to the form.	17	MS. O'DELL: What's the ending Bates Number
18	THE WITNESS: I don't know if I don't know	18	on there?
19	if any relation between talc powder use and adhesions.	19	BY MR. KLATT:
20	BY MR. KLATT:	20	Q. There may be a Bates Number in the lower right hand
21	Q. Is there a way to measure the redox state directly	21	corner.
22	inside of cells?	22	A. 10.
23	A. Very difficult.	23	Q. Okay. I'm with you.
24	Q. Can it be done?	24	A. Are you there?
25	A. The data will not be very reliable.	25	Q. Yes.
	Page 307		Page 309
1	Q. Is there a method to do that?	1	A. It's even cut off from here, I don't know why. But you
2	A. You can measure H2O2, you can measure nitrosylation,	2	see the standard curve?
3	degree of nitrosylation of protein, we have done that	3	Q. Yes.
4	with Caspase-3 and S-nitrosylation of Caspase-3 as a	4	A. Okay, so what we do here, we do a realtime RT-PCR where
5	measure of how the level of antioxidants. The accurate	5	we design a small oligo that is flanked by the primers,
6	way to measure it is to measure the key players	6	and we order that to be synthesized, and we know the
7	together to have the complete picture.	7	concentration, we dilute it down, and we create a
8	Q. Those two methods that you just named, did you use	8	standard curve, and we use this standard curve to
9	those in any of your talc studies?	9	extrapolate the results and normalize for our level of
10	A. What methods?	10	mRNA with the treatment.
11	Q. The methods you just listed for me which were a way to	11	Q. Can I ask you a question. On Page 10, that indicates
12	directly measure the redox state of cells.	12	raw data, correct?
13	A. Measuring all markers? Oh, the other method, yes, they	13	A. Page 10?
14	are listed here.	14	Q. The page you were just looking at.
15	Q. Did you use those?	15	A. I just want to see, it's not clear here. I just want
16	A. I'm sorry, I'm missing you. Am I use ever in my lab or	16	to see what page is this here. I'm with you.
17	in this study?	17	MS. O'DELL: What's the question, Mike?
18	Q. In the talc studies.	18	BY MR. KLATT:
19	A. The S-nitrosylation of Caspase-3, we did not use in	19	Q. Looking at Page 10 on Exhibit 1, and I'm not talking
20	this study.	20	about the lab page number, I'm talking about the Bates
21	Q. And there was one other method that you mentioned.	21	Number, if you look for Sample 356, you see to the
	A. The H2O2.	22	right there's numbers 285995.18, 273439.209?
22	Q. Did you use that method in your talc	23	A. Uh-huh.
22 23	Q. Did you use that method in your tale		
	A. No, we used it for catalase activity indirectly.	24	Q. And 409589.891?

	Page 310		Page 312
1	Q. If you turn to the next page, those numbers are	1	A. Yeah. Is it Page 41?
2	replicated for Sample 356.	2	MS. O'DELL: You're on Page 11?
3	A. What next page?	3	MR. KLATT: Correct.
4	Q. The very next page in the	4	MS. O'DELL: So I think it's this page.
5	A. Here?	5	THE WITNESS: Oh. Isn't it this page?
6	Q. Yeah.	6	MS. O'DELL: No, I think it's back, if I'm
7	A. Okay. Where are they? 356, this is copies per	7	not mistaken.
8	micrograms of CDNA.	8	THE WITNESS: Oh, here. We were on this
9	Q. And that corresponds to those numbers, those same three	9	page, right?
10	numbers on the previous page, correct?	10	BY MR. KLATT:
11	A. So this is the copy number, 28274095, yeah, I see	11	Q. I'm confused because you're looking at the real lab
12	they're the same.	12	notebook and I'm looking at
13	Q. But for the 357 sample, the numbers don't correspond	13	A. No, no, no, we were on the same page. I thought you
14	between those two pages, correct?	14	asked me to go to a different page. I see that column.
15	A. Correct.	15	Q. Just so we're on the same wavelength
16	Q. And can you explain why?	16	A. I see it.
17	A. So that's why we normalize, because you will have	17	Q I'm referring to Page 11 Bates Number, correct?
18	different copy numbers all the time, so we normalize	18	A. Picogram per microgram for RNA.
19	it.	19	Q. Right.
20	Q. Can you go to the next page, which would be notebook	20 21	A. 4.58, the first number.
21 22	page handwritten Page 39 and Bates Number 11. A. 39? I'm still on the same page, right?	22	Q. 4.58? A. Uh-huh.
23	MS. O'DELL: That's where we were I thought,	23	Q. Right, and if you go that whole column's full of
24	unless I was confused about your question.	24	numbers, correct?
25	BY MR. KLATT:	25	A. This column, yes.
	Page 311		Page 313
-1			
1	Q. Well, Bates Number my Bates Number's cut off, excuse	1	Q. And then to the right of that you have an average,
2	Q. Well, Bates Number my Bates Number's cut off, excuse me, my handwritten number's cut off so I'm going to the	1 2	Q. And then to the right of that you have an average, correct?
	•		•
2	me, my handwritten number's cut off so I'm going to the Bates Number, which is 11. MS. O'DELL: Okay, it's Page	2	correct? A. Yes. Q. Sometimes you average two of the three numbers,
2	me, my handwritten number's cut off so I'm going to the Bates Number, which is 11. MS. O'DELL: Okay, it's Page THE WITNESS: The next page.	2	correct? A. Yes.
2 3 4 5 6	me, my handwritten number's cut off so I'm going to the Bates Number, which is 11. MS. O'DELL: Okay, it's Page THE WITNESS: The next page. BY MR. KLATT:	2 3 4 5 6	correct? A. Yes. Q. Sometimes you average two of the three numbers, sometimes you average all three numbers. A. Correct.
2 3 4 5 6 7	me, my handwritten number's cut off so I'm going to the Bates Number, which is 11. MS. O'DELL: Okay, it's Page THE WITNESS: The next page. BY MR. KLATT: Q. Okay. And do you see the column toward the right	2 3 4 5 6 7	correct? A. Yes. Q. Sometimes you average two of the three numbers, sometimes you average all three numbers. A. Correct. Q. Why do you only average two of the three numbers
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2 3 4 5 6 7 8 9	me, my handwritten number's cut off so I'm going to the Bates Number, which is 11. MS. O'DELL: Okay, it's Page THE WITNESS: The next page. BY MR. KLATT: Q. Okay. And do you see the column toward the right called picograms per microgram of RNA? A. Where is that? Q. The third column from the right-hand side.	2 3 4 5 6 7 8 9	correct? A. Yes. Q. Sometimes you average two of the three numbers, sometimes you average all three numbers. A. Correct. Q. Why do you only average two of the three numbers sometimes? A. If we have outlier, really high, different. Q. And what's your criteria for throwing out an outlier?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	me, my handwritten number's cut off so I'm going to the Bates Number, which is 11. MS. O'DELL: Okay, it's Page THE WITNESS: The next page. BY MR. KLATT: Q. Okay. And do you see the column toward the right called picograms per microgram of RNA? A. Where is that? Q. The third column from the right-hand side. A. On Page in this page, right? Q. Page 11, Bates Stamped Page 11. A. This is the page, okay, this is the page. So you're looking at microgram? Q. Picograms per microgram per RNA, do you see that column? A. I see copies per microgram for RNA, I see copies per microgram for RNA, thintogram (sic) per microgram for RNA. Is what you're looking at? Q. I'm looking right here, picograms per micrograms RNA the third column from the right. A. 1, 2, 3, that's called thintogram (sic).	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	correct? A. Yes. Q. Sometimes you average two of the three numbers, sometimes you average all three numbers. A. Correct. Q. Why do you only average two of the three numbers sometimes? A. If we have outlier, really high, different. Q. And what's your criteria for throwing out an outlier? A. So if you have 4.5, 4.3, and 6.5, that's an outlier. Q. What's your threshold for classifying something as an outlier to not include it in your calculations? A. So if the two numbers match, the closer they match and the higher the outlier is is what we determine. Q. So do you always throw out the outlier of the three values? A. Not always, not necessarily. Q. So I'm just trying to figure what's your criteria for A. So if they are like, for example, close like, for example, here, if we don't know that it is an outlier,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	me, my handwritten number's cut off so I'm going to the Bates Number, which is 11. MS. O'DELL: Okay, it's Page THE WITNESS: The next page. BY MR. KLATT: Q. Okay. And do you see the column toward the right called picograms per microgram of RNA? A. Where is that? Q. The third column from the right-hand side. A. On Page in this page, right? Q. Page 11, Bates Stamped Page 11. A. This is the page, okay, this is the page. So you're looking at microgram? Q. Picograms per microgram per RNA, do you see that column? A. I see copies per microgram for RNA, I see copies per microgram for RNA, thintogram (sic) per microgram for RNA. Is what you're looking at? Q. I'm looking right here, picograms per micrograms RNA the third column from the right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	correct? A. Yes. Q. Sometimes you average two of the three numbers, sometimes you average all three numbers. A. Correct. Q. Why do you only average two of the three numbers sometimes? A. If we have outlier, really high, different. Q. And what's your criteria for throwing out an outlier? A. So if you have 4.5, 4.3, and 6.5, that's an outlier. Q. What's your threshold for classifying something as an outlier to not include it in your calculations? A. So if the two numbers match, the closer they match and the higher the outlier is is what we determine. Q. So do you always throw out the outlier of the three values? A. Not always, not necessarily. Q. So I'm just trying to figure what's your criteria for A. So if they are like, for example, close like, for

	Page 314		Page 316
1	Q. Do you have a certain numerical criteria that you use	1	
2	to classify something as an outlier that you're going	2	RE-EXAMINATION BY MR. HEGARTY:
3	to exclude from your calculations?	3	Q. Doctor, I'm showing you what I'm marking as Exhibit 19.
4	A. I just told you.	4	Do you recognize Exhibit 19?
5	Q. What's the numerical value?	5	A. It looks like the abstract we submitted to SGO.
6	A. I don't have a numerical value.	6	Q. This abstract in the middle refers to testing done at
7	Q. You just eyeball it?	7	48 hours; is that correct?
8	MS. O'DELL: Object to the form.	8	A. 48 hours is a typo everywhere you see it, I acknowledge
9	THE WITNESS: No, no, no, no, please, so I	9	that.
10	just said that if the two numbers, okay, agrees very	10	Q. So you reported 48 hours in this abstract to SGO?
11	close, the closer the two numbers together and the more	11	A. Correct. It is wrong. All the work that I did it's 72
12	further is the other number, that is considered an	12	hours.
13	outlier to me.	13	SAED DEPOSITION EXHIBIT NUMBER 20,
14	BY MR. KLATT:	14	ABSTRACT,
15	Q. But, again, you don't have any numerical formula that	15	WAS MARKED BY THE REPORTER
16	you follow to make that determination, correct?	16	FOR IDENTIFICATION
17	MS. O'DELL: Object to the form.	17	BY MR. HEGARTY:
18	THE WITNESS: I told you what I follow.	18	Q. I'm going to mark as Exhibit Number 20 another abstract
19	BY MR. KLATT:	19	of yours; is that correct?
20	Q. When it's close together, you exclude the third one.	20	A. Where is it talcum powder where was this?
21	When it's further apart, you	21	Q. Do you recognize this abstract?
22	A. I did not say that.	22	A. March 2018, okay.
23	MS. O'DELL: Object to the form.	23	Q. In the middle you report treating cells at 0, 200, and
24	BY MR. KLATT:	24	500 micrograms per milliliter; is that correct?
25	Q. Then please explain numerically how you make the	25	A. Yes, that was the initial study that we did.
	Page 315		Page 317
1	decision to exclude one of the three values	1	Q. And that data is reflected in the notebooks we looked
2	A. Okay.	2	at?
3	Q or include it.	3	A. It's here, yes.
4	A. One more time. So if the two number we have three	4	MR. KLATT: Which notebook?
5	numbers, right, three values. If two of the three	5	MS. O'DELL: Exhibit 3.
6	values are very close, the closer they are together,	6	SAED DEPOSITION EXHIBIT NUMBER 21,
7	and they are more further from the third one, that	7	ABSTRACT FROM SRI,
8	third one qualifies for outlier.	8	WAS MARKED BY THE REPORTER
9	Q. How close do the two have to be to exclude the third?	9	FOR IDENTIFICATION
10	A. Very close, have to be very close.	10	BY MR. HEGARTY:
11	Q. Numerically how	11	Q. I'm going to mark next as Exhibit Number 21 another
12	A. I don't know, I don't have a numerical value.	12	abstract of yours from SRI; is that correct?
13	Q. That's all the questions I have, Doctor.	13	A. SRI, March 16, this one is what is the title
14	MR. HEGARTY: How much time do we have left?	14	yeah, talcum powder yes.
15	THE VIDEOGRAPHER: Two minutes left.	15	Q. In the method section you report treating cells with
16	MS. O'DELL: Do you have questions?	16	1,000 micrograms per milliliter of talc; is that
17	MR. LOCKE: I do have a few.	17	correct?
18	MS. O'DELL: You've got two minutes.	18	A. That's a typo that's 100.
19	MR. LOCKE: I know you've got some, too.	19	Q. That's another mistake?
20	MR. HEGARTY: I do.	20	A. Yes, it's 100.
21	MR. LOCKE: Go ahead, Mark.	21	MS. O'DELL: I think your time's gone.
	SAED DEPOSITION EXHIBIT NUMBER 19,	22	MR. HEGARTY: Okay. Well, we
22	ABSTRACT SUBMITTED TO SGO,	23	THE WITNESS: And all those are the
23			and the same of th
	WAS MARKED BY THE REPORTER FOR IDENTIFICATION	24 25	preliminary that we did. MR. HEGARTY: We have request for several

	Page 318		Page 320
1	documents to be produced, so we can go on the record	1	actually, maybe I should do it this way, I apologize.
2	before we finish the deposition. And then, also, we	2	If you would, let me hand to you what was marked as the
3	reserve the right, as we indicated at the beginning of	3	lab notebook for your the experiments that were done
4	the deposition, to seek additional time because of the	4	to and reported on in your manuscript and your report,
5	late productions and, also, because of the	5	Exhibit 1. Do you see those?
6	nonresponsive nature Dr. Saed has been throughout the	6	A. Yes.
7	deposition.	7	Q. And if you turn to I think it was Page 57, Bates Number
8	MS. O'DELL: I think the objection for one	8	57 make sure I'm at the right page. Let me know
9	was objection for all, I think you made that rule,	9	when you get there, Doctor.
10	Mike, but I'm glad you put we're going to go off the	10	A. 57?
11	record, and I may have a few questions for Dr. Saed.	11	Q. Uh-huh.
12	Before I do, I will say I think to state that Dr. Saed	12	A. This page?
13	has not been responsive in his answers today is a	13	Q. Maybe I wrote the page down oh, yeah, it's actually
14	misstate. The record and his testimony will be	14	84 in it's 57 in there and it's 84 in your main lab
15	reflective that he was attempting to respond to the	15	notebook. You recall a number of questions about or
16	questions, very difficult technical questions, and so	16	two questions at least that I recall, and it refers to
17	he's attempted to do his best, and as we said before,	17	Page 84 in Exhibit 2 that corresponds to Bates Number
18	we've complied with all the orders of the Court and the	18	57 of Exhibit 1, do you recall that, and there was
19	Notice of Deposition, and we'll oppose efforts at this	19	you were asked about a missing data table
20	point for any additional time with him. So let's go	20	A. Correct.
21	off the record.	21	Q that did not make it into the scanned version.
22	MR. HEGARTY: And to the extent that you	22	A. Correct.
23	don't have any additional questions, I just want to go	23	Q. Is the data contained in the table on Page 57 of the
24	back on the record and make a note of the additional	24	scanned excuse me 84 of the lab notebook
25	documents we want from Dr. Saed. We can do it now or	25	contained in the figure below?
	Page 319		Page 321
1	Page 319 we can do it at the end.	1	Page 321 A. Yes.
1 2		1 2	
	we can do it at the end.		A. Yes.
2	we can do it at the end. MS. O'DELL: Why don't we wait until the end.	2	A. Yes. Q. And was that figure included in the version that was
2	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay.	2	A. Yes.Q. And was that figure included in the version that was provided to defense counsel?A. Yes.
2 3 4	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay. THE VIDEOGRAPHER: Going off the record at 6:32 p.m.	2 3 4	A. Yes.Q. And was that figure included in the version that was provided to defense counsel?
2 3 4 5	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay. THE VIDEOGRAPHER: Going off the record at	2 3 4 5	A. Yes.Q. And was that figure included in the version that was provided to defense counsel?A. Yes.Q. Okay. I've got one more situation like this. If
2 3 4 5 6	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay. THE VIDEOGRAPHER: Going off the record at 6:32 p.m. (A short recess was taken.)	2 3 4 5 6	 A. Yes. Q. And was that figure included in the version that was provided to defense counsel? A. Yes. Q. Okay. I've got one more situation like this. If you'll turn to page let me get it it's 62 at the
2 3 4 5 6 7	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay. THE VIDEOGRAPHER: Going off the record at 6:32 p.m. (A short recess was taken.) THE VIDEOGRAPHER: We're back on the record	2 3 4 5 6 7	 A. Yes. Q. And was that figure included in the version that was provided to defense counsel? A. Yes. Q. Okay. I've got one more situation like this. If you'll turn to page let me get it it's 62 at the Bates Stamp Number version, Exhibit 1, and for the lab
2 3 4 5 6 7 8	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay. THE VIDEOGRAPHER: Going off the record at 6:32 p.m. (A short recess was taken.) THE VIDEOGRAPHER: We're back on the record at 6:56 p.m.	2 3 4 5 6 7 8	 A. Yes. Q. And was that figure included in the version that was provided to defense counsel? A. Yes. Q. Okay. I've got one more situation like this. If you'll turn to page let me get it it's 62 at the Bates Stamp Number version, Exhibit 1, and for the lab notebook it's Page 87.
2 3 4 5 6 7 8	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay. THE VIDEOGRAPHER: Going off the record at 6:32 p.m. (A short recess was taken.) THE VIDEOGRAPHER: We're back on the record at 6:56 p.m. EXAMINATION BY MS. O'DELL:	2 3 4 5 6 7 8 9	 A. Yes. Q. And was that figure included in the version that was provided to defense counsel? A. Yes. Q. Okay. I've got one more situation like this. If you'll turn to page let me get it it's 62 at the Bates Stamp Number version, Exhibit 1, and for the lab notebook it's Page 87. A. Yes.
2 3 4 5 6 7 8 9	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay. THE VIDEOGRAPHER: Going off the record at 6:32 p.m. (A short recess was taken.) THE VIDEOGRAPHER: We're back on the record at 6:56 p.m. EXAMINATION BY MS. O'DELL: Q. Doctor, I wanted to follow up on a few questions.	2 3 4 5 6 7 8 9	 A. Yes. Q. And was that figure included in the version that was provided to defense counsel? A. Yes. Q. Okay. I've got one more situation like this. If you'll turn to page let me get it it's 62 at the Bates Stamp Number version, Exhibit 1, and for the lab notebook it's Page 87. A. Yes. Q. And I think in this instance there was a table on
2 3 4 5 6 7 8 9 10	we can do it at the end. MS. O'DELL: Why don't we wait until the end. MR. HEGARTY: Okay. THE VIDEOGRAPHER: Going off the record at 6:32 p.m. (A short recess was taken.) THE VIDEOGRAPHER: We're back on the record at 6:56 p.m. EXAMINATION BY MS. O'DELL: Q. Doctor, I wanted to follow up on a few questions. First, when you were acting as a consultant, you	2 3 4 5 6 7 8 9 10	 A. Yes. Q. And was that figure included in the version that was provided to defense counsel? A. Yes. Q. Okay. I've got one more situation like this. If you'll turn to page let me get it it's 62 at the Bates Stamp Number version, Exhibit 1, and for the lab notebook it's Page 87. A. Yes. Q. And I think in this instance there was a table on Page 87 of the lab notebook that was not scanned in the
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	Page 322		Page 324
1	notebook that's been marked or two notebooks that have	1	BY MS. O'DELL:
2	been marked Exhibit 11, and does that contain your	2	Q. You were asked a number of questions about your
3	expert report in this case as well as the references	3	manuscript today. In your manuscript you state that
4	noted in your expert report?	4	your findings provide a molecular mechanism for linking
5	A. Correct.	5	genital talcum powder use to increased ovarian cancer
6	Q. And do you have any changes that you would like to make	6	risk?
7	in your expert report?	7	A. Yes.
8	A. Yes, I do.	8	Q. And does that statement relate to the pathogenesis of
9	Q. Okay.	9	ovarian cancer?
10	A. So I think during that note there were some references	10	A. Yes.
11	that were mislabeled, so I would like to	11	Q. Does pathogenesis refer to the molecular mechanism that
12	Q. Tell us what page you're on.	12	results in the development of a disease?
13	A. Page 10, I'd like to add where it says 49, I would	13	A. Yes.
14	like to add 51 there.	14	Q. Also, in relation to your manuscript, has your
15	Q. And when you say 51, do go	15	manuscript been peer reviewed and accepted for
16	A. Reference number 51.	16	publication?
17	Q. Okay.	17	A. Yes.
18	A. Okay. And next page, Page 11, where it says 50 on the	18	Q. Is the use of immortalized cells in laboratory research
19	top of the page, first line, I'd like to add the NTP	19	generally accepted in your field?
20	study 1993.	20	A. Yes.
21	Q. Okay.	21	MR. HEGARTY: Objection, form.
22	A. And on Page 12, I'd like to remove 4575.	22	BY MS. O'DELL:
23	Q. Okay. And where is that on Page 12?	23	Q. Is it widely accepted?
24	A. On the middle paragraph.	24	MR. HEGARTY: Objection, form.
25	Q. All right.	25	THE WITNESS: Yes.
	Page 323		Page 325
1	MR. HEGARTY: I'm sorry, we're not getting	1	BY MS. O'DELL:
2	realtime.	2	Q. Is it a generally accepted practice for researchers in
3	MS. O'DELL: Let's go off the record. Do you	3	your field to correlate findings from immortalized
4	need that or can we move on?	4	cells to in vivo application in humans?
5	MR. HEGARTY: No, I need it. I just wanted	5	A. Yes.
6	to see what he just said, and I can't, I obviously	6	Q. In terms of the studies that you have conducted on
7	can't see it so	7	talc, you mentioned that you use multiple types
8	MS. O'DELL: Off the record.	8	multiple lines of each type of cell; do you recall
9	THE VIDEOGRAPHER: Going off the record at	9	that?
10	7:03 p.m.	10	A. Yes.
	(An off-the-record discussion was held.)	11	Q. How many lines of or types of ovarian cells did you
11			
11 12	THE VIDEOGRAPHER: We're back on the record	12	use?
	THE VIDEOGRAPHER: We're back on the record at 7:05 p.m.	12 13	use? A. Three different ovarian cancer cell lines and three
12			
12 13	at 7:05 p.m.	13	A. Three different ovarian cancer cell lines and three
12 13 14	at 7:05 p.m. BY MS. O'DELL:	13 14	A. Three different ovarian cancer cell lines and three different normal cell lines.
12 13 14 15	at 7:05 p.m. BY MS. O'DELL: Q. You may continue, Doctor?	13 14 15	A. Three different ovarian cancer cell lines and three different normal cell lines.Q. And what's the reason for doing that?
12 13 14 15	at 7:05 p.m. BY MS. O'DELL: Q. You may continue, Doctor? A. Yes. So the Page 12, the middle paragraph, I would	13 14 15 16	A. Three different ovarian cancer cell lines and three different normal cell lines.Q. And what's the reason for doing that?A. The reason is to get a rebox finding to show that it is
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12 13 14 15 16 17 18	at 7:05 p.m. BY MS. O'DELL: Q. You may continue, Doctor? A. Yes. So the Page 12, the middle paragraph, I would like to delete references 4575 from the whole paragraph, they don't belong there.	13 14 15 16 17 18	 A. Three different ovarian cancer cell lines and three different normal cell lines. Q. And what's the reason for doing that? A. The reason is to get a rebox finding to show that it is not repeated three times but the finding is reproduced from three different normal or three different ovarian.
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12 13 14 15 16 17 18 19 20 21 22	at 7:05 p.m. BY MS. O'DELL: Q. You may continue, Doctor? A. Yes. So the Page 12, the middle paragraph, I would like to delete references 4575 from the whole paragraph, they don't belong there. Q. Okay. A. That's it. Q. Anything else? Okay. Doctor, do in vitro models reliably predict the pathogenicity of potentially	13 14 15 16 17 18 19 20 21 22	 A. Three different ovarian cancer cell lines and three different normal cell lines. Q. And what's the reason for doing that? A. The reason is to get a rebox finding to show that it is not repeated three times but the finding is reproduced from three different normal or three different ovarian. Q. And could another scientist with your expertise in and background in research, could they replicate the studies that you've conducted? A. Yes.

	Page 326		Page 328
1	results?	1	RE-EXAMINATION BY MR. HEGARTY:
2	MR. HEGARTY: Objection, form.	2	Q. Doctor, in connection with your work in this
3	THE WITNESS: That talcum powder induces	3	litigation, did the lawyers for Plaintiff provide you
4	inflammation that leads to increased risk of ovarian	4	with any medical or scientific literature?
5	cancer.	5	A. No.
6	BY MS. O'DELL:	6	Q. So none of the materials we marked as Exhibit Number 11
7	Q. Are there any other alternative explanations other than	7	were provided by Counsel for Plaintiffs?
8	the presence of talc treating a cell?	8	MS. O'DELL: Object to the form.
9	A. This is a direct experiment showing isolated effect.	9	THE WITNESS: Yeah, this was copied and
10	Q. Based on your academic training and years of experience	10	provided by them, the references I made.
11	studying ovarian cancer, does the cause and effect	11	BY MR. HEGARTY:
12	observed in your studies make sense?	12	Q. In connection with you strike that. In connection
13	MR. HEGARTY: Objection, form.	13	with any other testing you have done involving cell
14	THE WITNESS: It does.	14	cultures, have you ever served as an expert witness or
15	BY MS. O'DELL:	15	a consultant in litigation involving the same topic of
16	Q. In terms of the particular data that you evaluated, I	16	those experiments?
17	want to ask you to take a look at I think it was Bates	17	MS. O'DELL: Object to the form.
18	Number Page 11 of Exhibit 1, and you were asked some	18	THE WITNESS: I never served, as I stated, as
19	questions about occasions when you averaged two	19	an expert witness in any litigation.
20	findings?	20	BY MR. HEGARTY:
21	A. Outliers.	21	Q. In connection with any experimental testing you've done
22	Q. Yes. So address the outliers	22	involving cell cultures, have you ever served as a paid
23	A. Yeah, so what I forgot to say that when I was asked	23	expert for plaintiffs lawyers on the same topic for
24	by this whole statistics, I did not touch. This was	24	which you were doing those experiments?
25	done by a professional, by a statistician, and the	25	MS. O'DELL: Object to the form.
	Page 327		Page 329
1	Page 327 results, his finding is in the section in the notebook.	1	Page 329 THE WITNESS: Have I been hired by and paid
1 2		1 2	
	results, his finding is in the section in the notebook.		THE WITNESS: Have I been hired by and paid
2	results, his finding is in the section in the notebook. He determined everything.	2	THE WITNESS: Have I been hired by and paid for by another? I'm sorry
2	results, his finding is in the section in the notebook. He determined everything. Q. Would you have published your results even if they had	2	THE WITNESS: Have I been hired by and paid for by another? I'm sorry BY MR. HEGARTY:
2 3 4	results, his finding is in the section in the notebook. He determined everything. Q. Would you have published your results even if they had shown there was no biological effect?	2 3 4	THE WITNESS: Have I been hired by and paid for by another? I'm sorry BY MR. HEGARTY: Q. Other lawyers at the same time you were doing cell
2 3 4 5	results, his finding is in the section in the notebook. He determined everything. Q. Would you have published your results even if they had shown there was no biological effect? MR. HEGARTY: Objection, form.	2 3 4 5	THE WITNESS: Have I been hired by and paid for by another? I'm sorry BY MR. HEGARTY: Q. Other lawyers at the same time you were doing cell culture tests involving the same topic that you were
2 3 4 5 6	results, his finding is in the section in the notebook. He determined everything. Q. Would you have published your results even if they had shown there was no biological effect? MR. HEGARTY: Objection, form. THE WITNESS: Of course.	2 3 4 5 6	THE WITNESS: Have I been hired by and paid for by another? I'm sorry BY MR. HEGARTY: Q. Other lawyers at the same time you were doing cell culture tests involving the same topic that you were consulting with them on.
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	Page 330		Page 332
1	telling me that?	1	A. What's the name of the lady I met today
2	MS. O'DELL: I don't recall the question	2	MS. O'DELL: Michelle.
3	being asked.	3	THE WITNESS: Michelle, I just met her today.
4	BY MR. HEGARTY:	4	Sorry, I'm not good at names.
5	Q. I did ask. I asked you, Doctor, didn't I, if you had	5	MS. O'DELL: Alastair.
6	any if you needed to revise in any way your report.	6	THE WITNESS: And Alastair, we met today.
7	Do you recall me asking that?	7	BY MR. HEGARTY:
8	MS. O'DELL: Object to the form.	8	Q. You testified a moment ago that an in vitro model
9	THE WITNESS: Probably I forgot that those	9	reliably predicts that, I think, pathogenesis of
10	references need to be done.	10	potentially harmful particles and other carcinogens
11	BY MR. HEGARTY:	11	let me back up and find that testimony you said
12	Q. When did this revelation come to you?	12	do you agreed with the question that in vitro models
13	A. I mean I don't	13	reliably predict the pathogenesis of potentially
14	MS. O'DELL: Object to the form.	14	harmful particulates or other carcinogens in humans.
15	THE WITNESS: I'm not sure, we've been	15	Do you recall agreeing with that statement?
16	through many, many, many questions, so I don't really	16	A. Yes.
17	remember be accurately.	17	Q. What data does it take for an in vitro model to
18	BY MR. HEGARTY:	18	reliably predict the carcinogenicity of a particle?
19	Q. Well, I asked that you question about	19	A. What data?
20	A. Make you did, I'm not denying, maybe you did, but I'm	20	Q. Is it your testimony that in vitro models by themselves
21	saying there are too many things that we're covering	21	reliably predict the carcinogenicity of a particle to a
22	today in very small time.	22	human?
23	Q. Well, did you discover the need to make those revisions	23	A. Yes.
24	before today?	24	MS. O'DELL: Object to the form.
25	A. Yes, they actually they were marked in my with my	25	THE WITNESS: They do.
	Page 331		
	rage 331		Page 333
1		1	Page 333 BY MR. HEGARTY:
1 2	handwriting, this is my handwriting, they were marked	1 2	BY MR. HEGARTY:
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	Page 334		Page 336
1	A. One more time, please.	1	I don't understand what you're trying to do, seriously.
2	Q. How do you remember test results show that talc	2	BY MR. HEGARTY:
3	increases the risk of ovarian cancer?	3	Q. Well, have you ever reported finding a pro-oxidative or
4	A. By showing that the treatment with talcum powder	4	an anti-oxidative state in normal ovarian cells?
5	induces the same oxidative oxidant and anti-oxidant	5	MS. O'DELL: Object to the form.
6	profile that we observe in epithelial ovarian cancer	6	THE WITNESS: As compared to what?
7	cells.	7	BY MR. HEGARTY:
8	Q. But no study has shown those results in women using	8	Q. As compared to nothing.
9	cosmetic talc, correct?	9	A. How you not compare to nothing?
10	MS. O'DELL: Object to the form.	10	Q. Right.
11	THE WITNESS: So you're saying there's no	11	A. So we comparing ovarian cancer to normal cells.
12	studies out there showing woman using the talc powder	12	Q. My question is simply in normal cells, have you ever
13	have increased any of these markers?	13	found pro-oxidative or anti-oxidative state?
14	BY MR. HEGARTY:	14	A. We found okay, maybe I know what you want me to say.
15	Q. Correct.	15	So there are the players, the key oxidants and key
16	A. I think you asked me the same question before.	16	anti-oxidants, they are expressed in all cells
17	Q. Let me ask it a different way, if you I already	17	including normal. Now, the amount of the degree of
18	asked you the same question. How do you go from your	18	expression, that what gets screwed up and altered when
19	test results to concluding there's an increased risk of	19	you develop you start cells start developing that
20	cancer with applying talc to the body?	20	oncogenesis phenotype.
21	MS. O'DELL: Object to the form.	21	Q. I need to leave Mr. Klatt a minute or two. You
22	THE WITNESS: Again, as I stated, the	22	mentioned that you would still have published your
23	treatment of ovarian cancer cells, three different	23	article if you found no biologic effect. Do you recall
24	ovarian cancer cell lines and three different normal	24	answering that question?
25	cells with talcum powder induces a profile of oxidative	25	A. Correct.
	Page 335		Page 337
1		1	Page 337 Q. Is it your belief that anyone would publish your paper
1 2	Page 335 stress that we in our lab have extensively published and characterized for ovarian cancer cells.	1 2	
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	Page 338		Page 340
1	tissue; are you aware of that?	1	many questions as I can in 20 seconds. You're the
2	A. No.	2	first expert to reach the conclusions that you have in
3	Q. If you tested those other foreign particles that aren't	3	your report, is that correct?
4	talc in the same test that you tested talc, could you	4	MS. O'DELL: Object to the form.
5	get the same results?	5	THE WITNESS: That were looking at the
6	MS. O'DELL: Object to the form.	6	molecular mechanism and molecular effect of talcum
7	THE WITNESS: I didn't test them.	7	powder?
8	BY MR. KLATT:	8	BY MR. LOCKE:
9	Q. But is it possible that if you tested them, you could	9	Q. Right.
10	get the same results?	10	A. I wasn't the first one.
11	A. If I didn't test them, I will not give you an answer.	11	Q. Who did it before?
12	Q. I'm sorry?	12	A. Was Shukla and there was the what was the other guy
13	A. I did not test them.	13	name, I can't remember names, but there were two or
14	Q. So you have no idea whether any other foreign particle	14	three papers that look at molecular mechanisms,
15	other than tale would result in the same findings you	15	molecular effects.
16	found for talc, correct?	16	Q. Okay.
17	MS. O'DELL: Object to the form.	17	MS. O'DELL: I'm sorry, time's up.
18	BY MR. KLATT:	18	MR. LOCKE: I'm going to still object to not
19	Q. Because you haven't done the test.	19	being able to ask a couple quick questions here.
20	A. When I test, I will tell you.	20	MS. O'DELL: Tom, I'm sorry, I mean this
21	Q. So you can't give us any information on what any other	21	is between
22	particles other than talc would do under the tests that	22	MR. LOCKE: You're cutting me off.
23	you let me finish the tests that you submitted	23	MS. O'DELL: I've tried to be very
24	talc to, correct?	24	accommodating, but this is between you and your
25	MS. O'DELL: Object to the form.	25	co-counsel.
	Page 339		Page 341
1	Page 339 THE WITNESS: I only can give you information	1	Page 341 MR. LOCKE: No, it's really not.
1 2		1 2	
	THE WITNESS: I only can give you information		MR. LOCKE: No, it's really not.
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	D 242	
	Page 342	
1	MR. HEGARTY: Correct, and the documents that	1
2	Sharon Pepe used to put together the numbers that are	ERRATA
3	reported in that exhibit. And those are at least the	2
4	document requests that I can think of right now, but we	3 PAGE LINE CHANGE
5	reserve the right to go back and look at the transcript	4 5 REASON:
6	to see if there are any additional requests, and we	
7	will make them in a timely manner.	6 7 REASON:
8	MS. O'DELL: We will be happy to meet and	
9	confer on all of those items, some of which we might	89 REASON:
10	work an agreement out, some of which we might need some	10
11	assistance by the Court.	11 REASON:
12	THE VIDEOGRAPHER: This concludes the	12
13	deposition. We're going off the record at 7:29 p.m.	13 REASON:
14 15	(The deposition was concluded at 7:29 p.m.)	1.4
16		14 15 REASON:
17		16 17 REASON:
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19		18 19 REASON:
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21		20 21 REASON:
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24		24
25		25 REASON:
1 2	Page 343 CERTIFICATE OF NOTARY	1 ACKNOWLEDGMENT OF DEPONENT 2
1 2 3	CERTIFICATE OF NOTARY	2 I. , do
2		I,, do I hereby certify that I have read the foregoing pages, and that the same
2	CERTIFICATE OF NOTARY STATE OF MICHIGAN)	I,, do I,, do hereby certify that I have read the foregoing pages, and that the same is a correct transcription of the answers
2 3 4	CERTIFICATE OF NOTARY STATE OF MICHIGAN)) SS	2 I, , do 3 hereby certify that I have read the foregoing pages, and that the same 4 is a correct transcription of the answers given by me to the questions therein
2 3 4 5	CERTIFICATE OF NOTARY STATE OF MICHIGAN)) SS COUNTY OF OAKLAND)	I, , do hereby certify that I have read the foregoing pages, and that the same is a correct transcription of the answers given by me to the questions therein propounded, except for the corrections or changes in form or substance, if any,
2 3 4 5 6	CERTIFICATE OF NOTARY STATE OF MICHIGAN)	I,
2 3 4 5 6 7 8	STATE OF MICHIGAN)) SS COUNTY OF OAKLAND) I, Laurel A. Frogner, Certified Shorthand Reporter, a Notary Public in and for the above county and state, do hereby certify that the above deposition was taken before me at the time and place hereinbefore	I,
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